RadioBOSS

Radio Automation Software

User Manual

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RadioBOSS

Radio Automation Software

by DJsoft.Net Team

If you need a simple, affordable, reliable solution to automating your broadcasting needs, RadioBOSS is the solution you've been looking for.

Whether it's building and scheduling crossfaded programming for your terrestrial or Internet radio station, creating the right audio atmosphere in your restaurant or store, or broadcasting from live events, RadioBOSS has been the choice of thousands of broadcasters just like you for the past five years.

RadioBOSS makes it easy and fast to convert and manage audio assets, build playlists with advertising support, hourly blocks, rotations, crossfading, automatic leveling and other professional-level features and play your playlists to your local, terrestrial or Internet broadcasting system.

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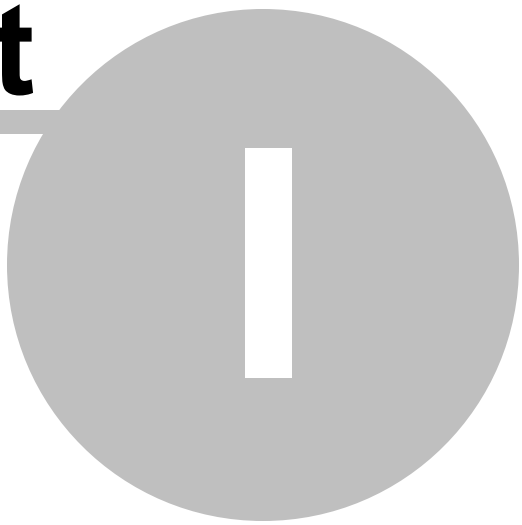
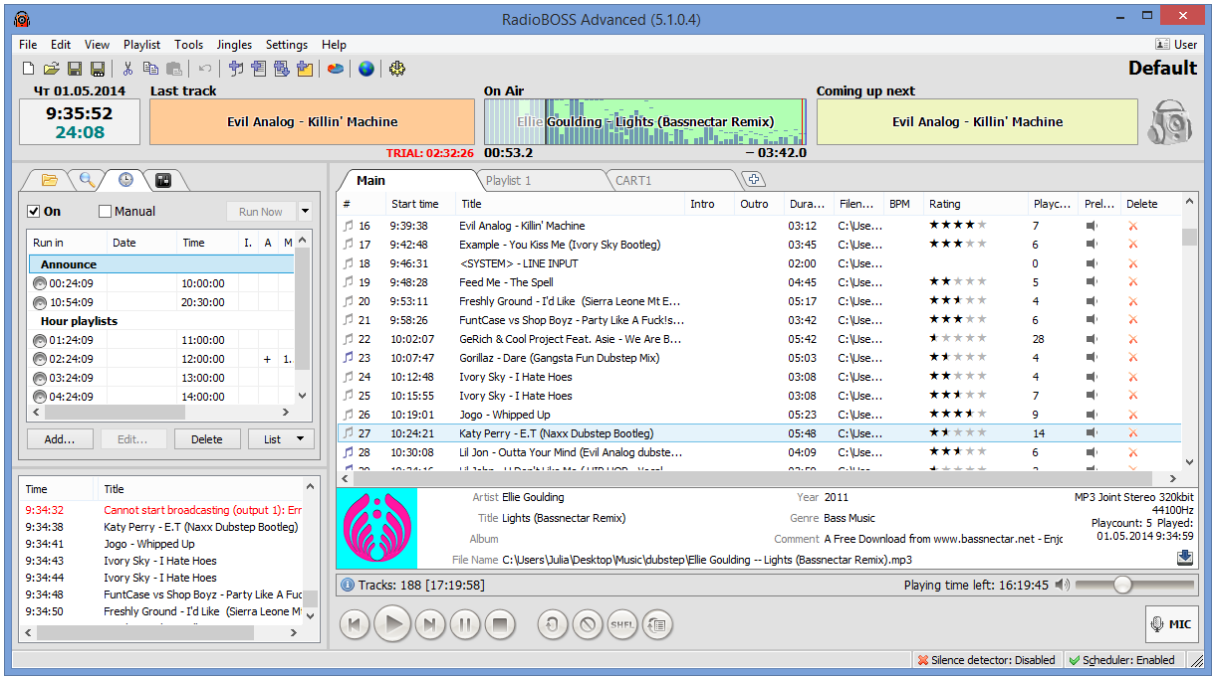
Part



1 Introduction

RadioBOSS is a professional radio automation program for terrestrial and Internet radio stations, DJ discos, clubs, bars, restaurants, health clubs and other venues. Once the playlist is set and settings are configured, the program allows broadcasting 24 hours a day in a fully unattended mode. RadioBOSS offers many tools and options to produce a professional music program, including playlist generator, music library, playback scheduler, advertisement scheduler, internet radio broadcasting, audio CD ripper and converter, tag editor, audio player and many other features. All features are delivered in an intuitive, user-friendly interface that allows you to learn the software quickly and use it with remarkable ease.



This help file is for RadioBOSS 5.2

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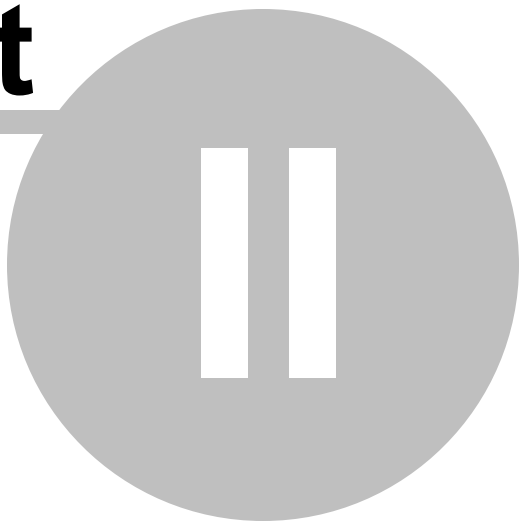
Part



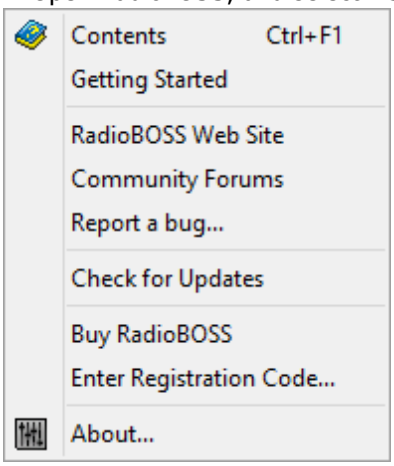
2 How to register

RadioBOSS is distributed on a try-before-you-buy basis. You can download a trial version of the application and use it for free during the trial period. To continue using RadioBOSS after the trial is over, you must buy a registration key.

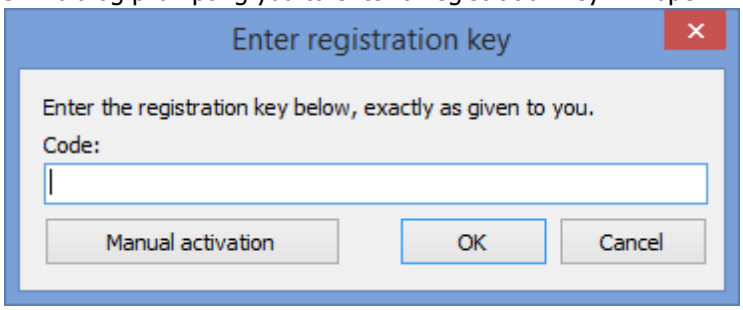
To register RadioBOSS, follow the steps below:

1. Go to www.djsoft.net and click the **Buy** button.
RadioBOSS is available in three editions. For details, please see the comparison table: http://www.djsoft.net/enu/radioboss_editions.htm (You can upgrade your edition any time at no additional cost.)
Once your order is submitted and processed, a message with the registration data will be sent to your email address specified during the registration.

2. Open RadioBOSS, and select **Help** -> **Enter Registration Code... in the top menu bar.**



3. A dialog prompting you to enter a registration key will open:



4. Enter your registration key. It is advisable to copy and paste the name and key from the email message.

5. Click **OK**. Now your copy of the application is registered and all limitations are removed.

If you have upgraded your edition (e.g. from Express to Standard), repeat steps 1 to 5 for the changes to take effect.

More information:

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RadioBOSS. Quick start

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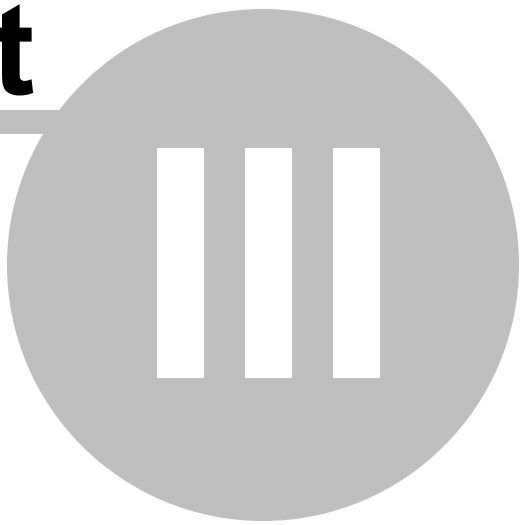
Part



3 Quick start

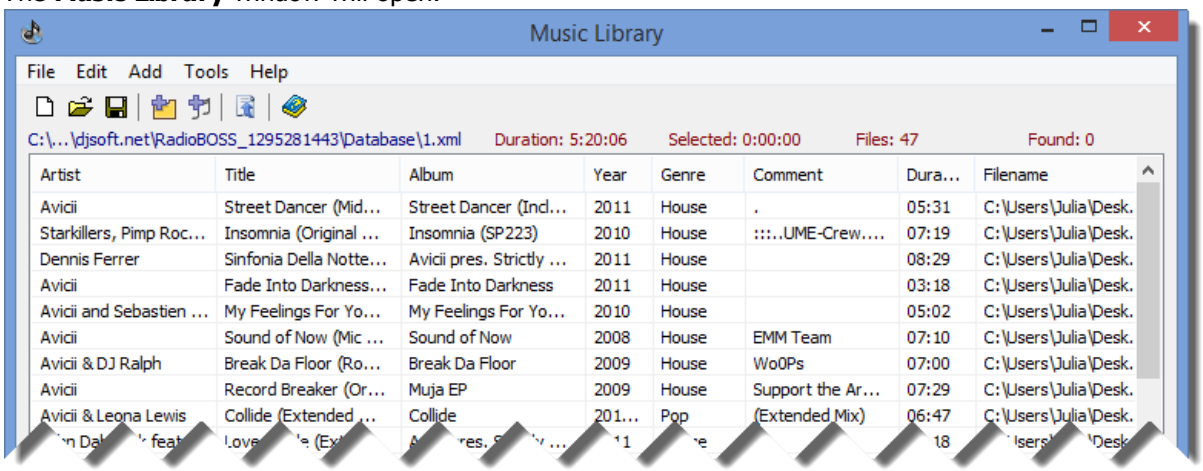
RadioBOSS lets you get started in just a few easy steps.

1. Run **RadioBOSS**.

2. Set up **Music Library**. Music Library is used for quick-search and automatic playlist generation.
If you are not going to use these features, you can skip this step. (You can use RadioBOSS without using Music Library.)

In the top menu bar, select **Library** -> **Open Music Library**.

The **Music Library** window will open:


Music Library
File Edit Add Tools Help
C:\...\djsoft.net\RadioBOSS_1295281443\Database\1.xml Duration: 5:20:06 Selected: 0:00:00 Files: 47 Found: 0
Artist Title Album Year Genre Comment Dura... Filename
Avicii Street Dancer (Mid... Street Dancer (Incl... 2011 House . 05:31 C:\Users\Julia\Desk.
Starkillers, Pimp Roc... Insomnia (Original ... Insomnia (SP223) 2010 House :::..UME-Crew.... 07:19 C:\Users\Julia\Desk.
Dennis Ferrer Sinfonia Della Notte... Avicii pres. Strictly ... 2011 House 08:29 C:\Users\Julia\Desk.
Avicii Fade Into Darkness... Fade Into Darkness 2011 House 03:18 C:\Users\Julia\Desk.
Avicii and Sebastien ... My Feelings For Yo... My Feelings For Yo... 2010 House 05:02 C:\Users\Julia\Desk.
Avicii Sound of Now (Mic ... Sound of Now 2008 House EMM Team 07:10 C:\Users\Julia\Desk.
Avicii & DJ Ralph Break Da Floor (Ro... Break Da Floor 2009 House Wo0Ps 07:00 C:\Users\Julia\Desk.
Avicii Record Breaker (Or... Muja EP 2009 House Support the Ar... 07:29 C:\Users\Julia\Desk.
Avicii & Leona Lewis Collide (Extended ... Collide 201... Pop (Extended Mix) 06:47 C:\Users\Julia\Desk.

To add a folder containing music tracks, click **Add** -> **Add folder**. Add your music using the "Add..." commands.
Once added, the audio files will be listed in the music library along with their track information (artist, title, album, year, genre, etc.)

Click **File -> Save** to save the library.

Close the music library.

3. Adding music to the playlist. You can use the **Playlist** menu or file explorer shown on the left (using drag-and-drop).

Available menu commands:

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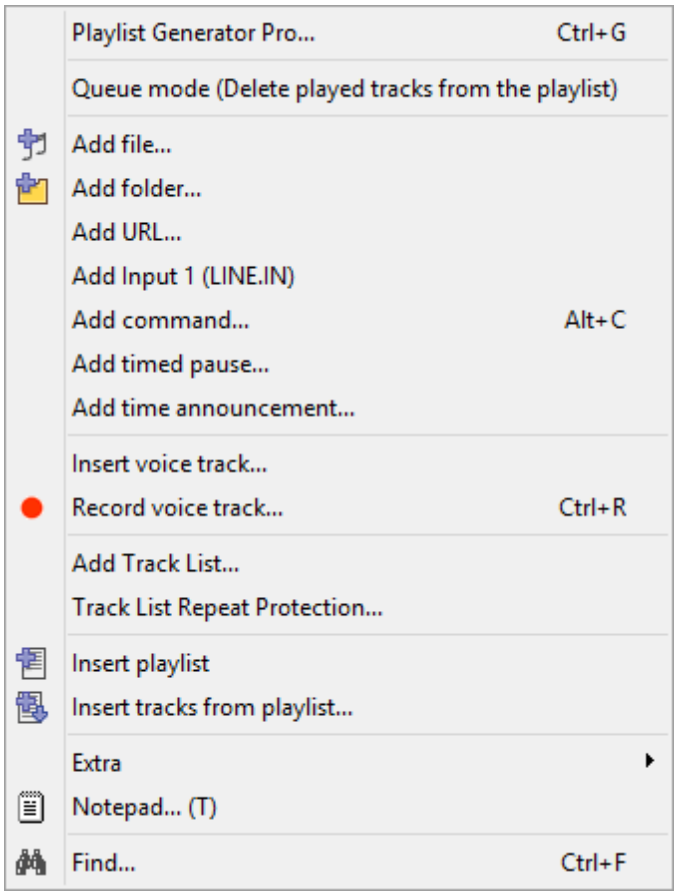
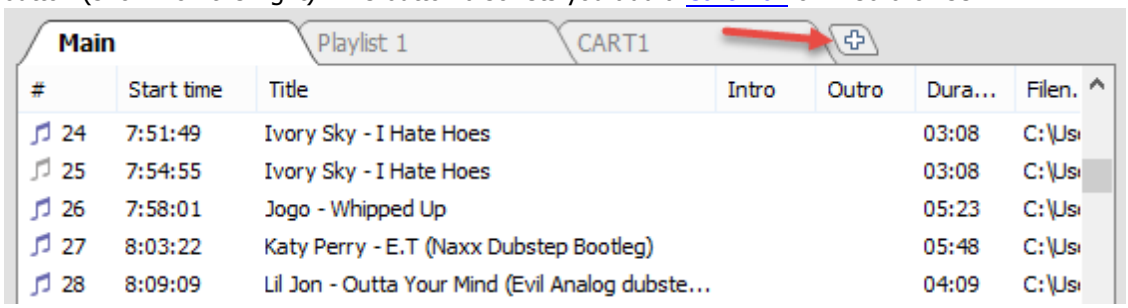


RadioBOSS supports multiple playlists, and you can add as many playlists as you need by clicking the "+" button (shown on the right). The button also lets you add a Cart wall or Web browser.


Main
Playlist 1
CART1
Start time Title Intro Outro Dura... Filen.
24 7:51:49 Ivory Sky - I Hate Hoes 03:08
25 7:54:55 Ivory Sky - I Hate Hoes 03:08
26 7:58:01 Jogo - Whipped Up 05:23
27 8:03:22 Katy Perry - E.T (Naxx Dubstep Bootleg) 05:48
28 8:09:09 Lil Jon - Outta Your Mind (Evil Analog dubste... 04:09

4. Assigning quick-access jingles. Select **Jingles** > **Assign...** to add jingles, so that you can play them by pressing the keys 1–9 on the keyboard.

5. Set up crossfading. You can skip this step and use the default settings.
In the menu, click **Settings** -> **Crossfades**. You can find more information here: **Crossfading.**

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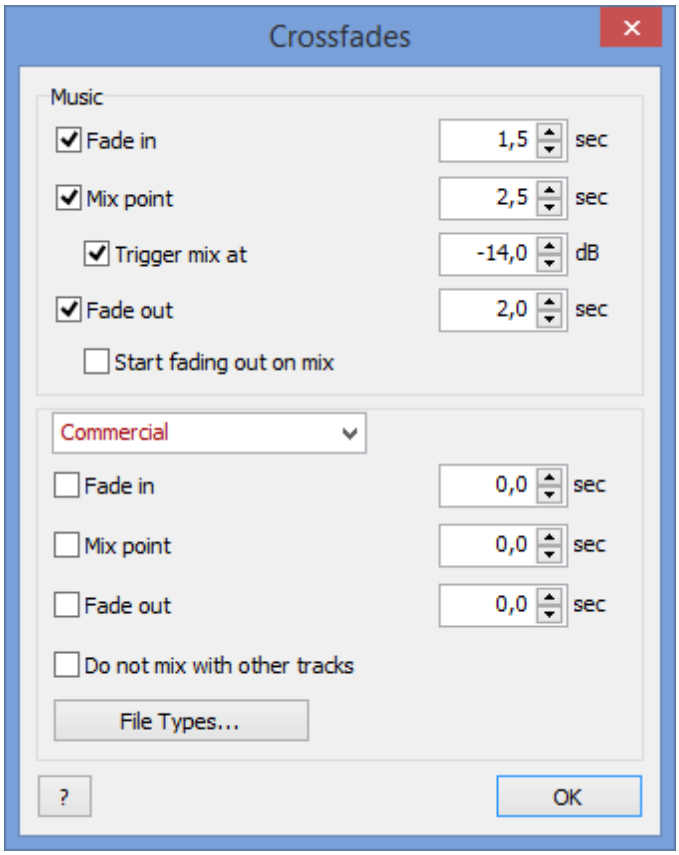

6. If you have multiple sound cards installed or want to configure advanced playback settings, go to the Settings window from the menu: **Settings -> Options...**
In the playback section, you can set up output sound cards and various output settings.

You can also configure pre-listening of a track. This way, you will be able to listen to that track without broadcasting it, on a separate audio device.

Read more here: playback parameters.

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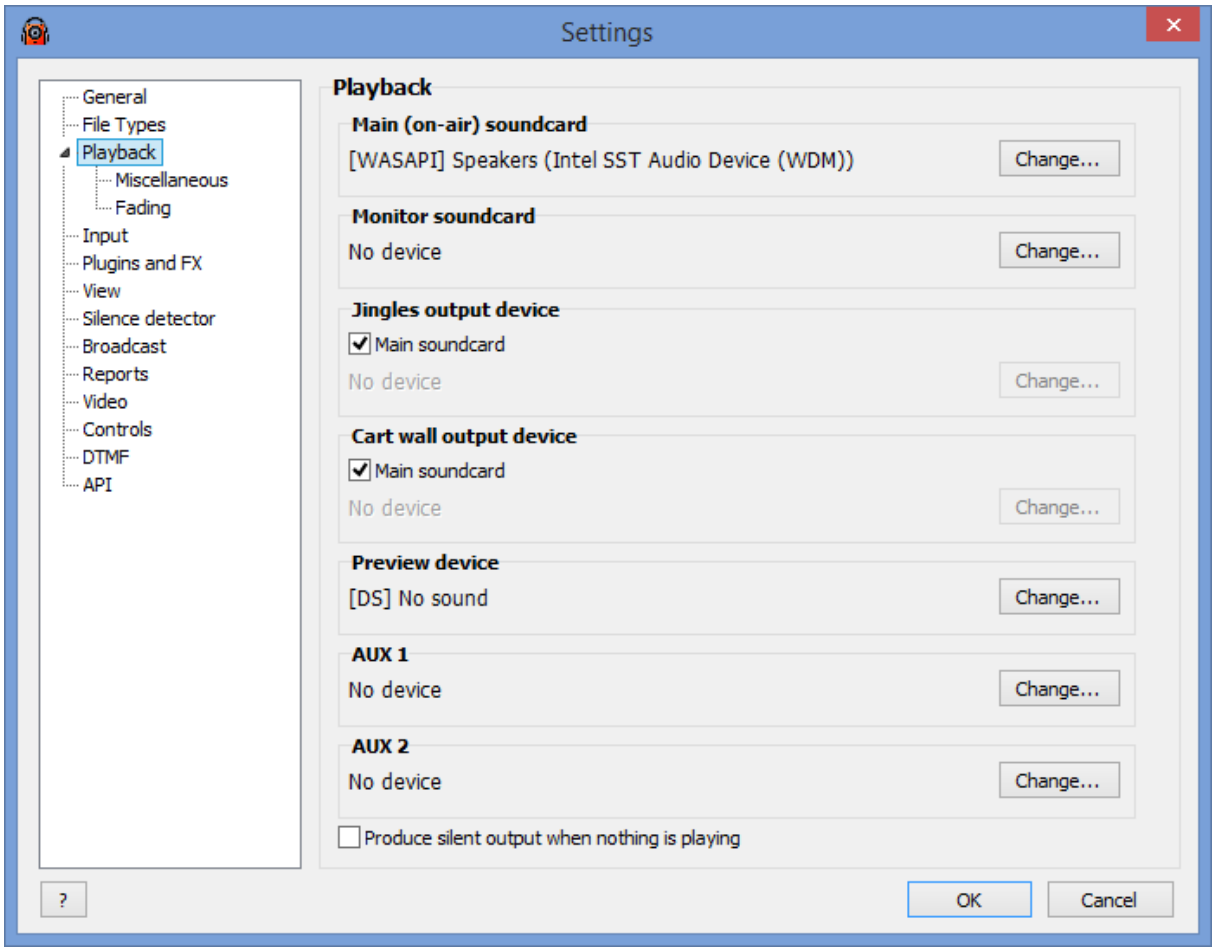

7. Setting up a broadcast. If you are running an Internet radio station, set up the **broadcasting encoders**. RadioBOSS supports ShoutCast, IceCast, and compatible servers. It also supports Windows Media Server and has a built-in broadcasting server, so that users can connect directly to RadioBOSS. No extra plugins are required. The Broadcasting Internet Radio section describes in detail how to set up broadcasting encoders.

8. To start the playback, double-click any file in the playlist.

More information:
Broadcasting encoders
Creating a music library
Generating a playlist

3.1 Setting up PFL

Pre-listening is available in the playlist (right-click a track) and the music database, as well as in Track Tool, the crossfade editor, and the voice track recorder.

To configure pre-listening, open the application's settings, switch to the Playback section, and select a device for pre-listening tracks for the **Pre-listening (PFL)** card.

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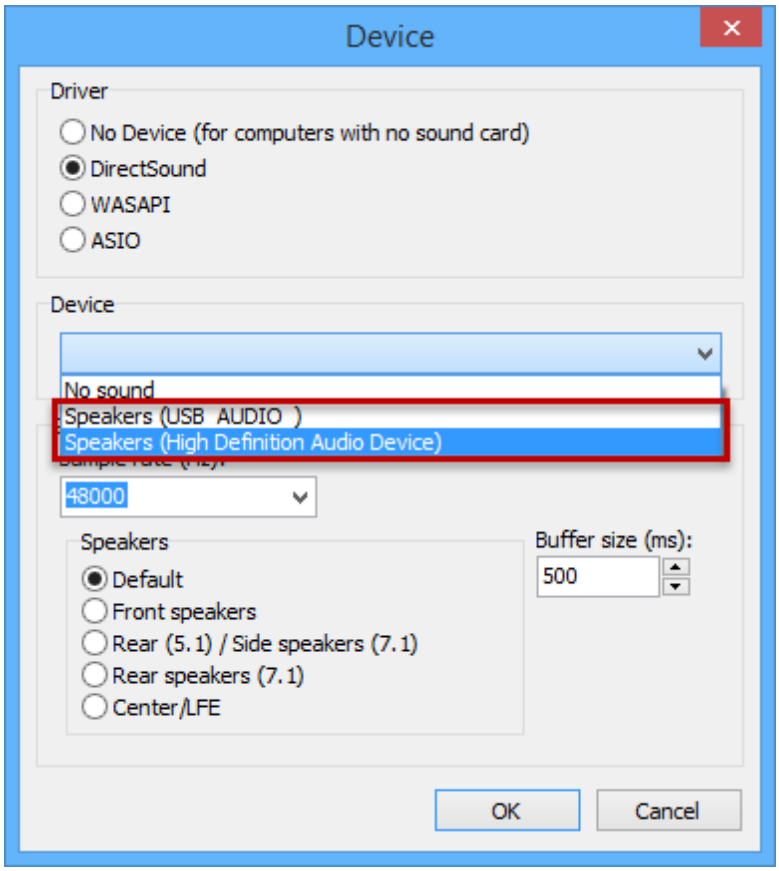

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Part

4 Operation

4.1 Broadcasting Internet radio

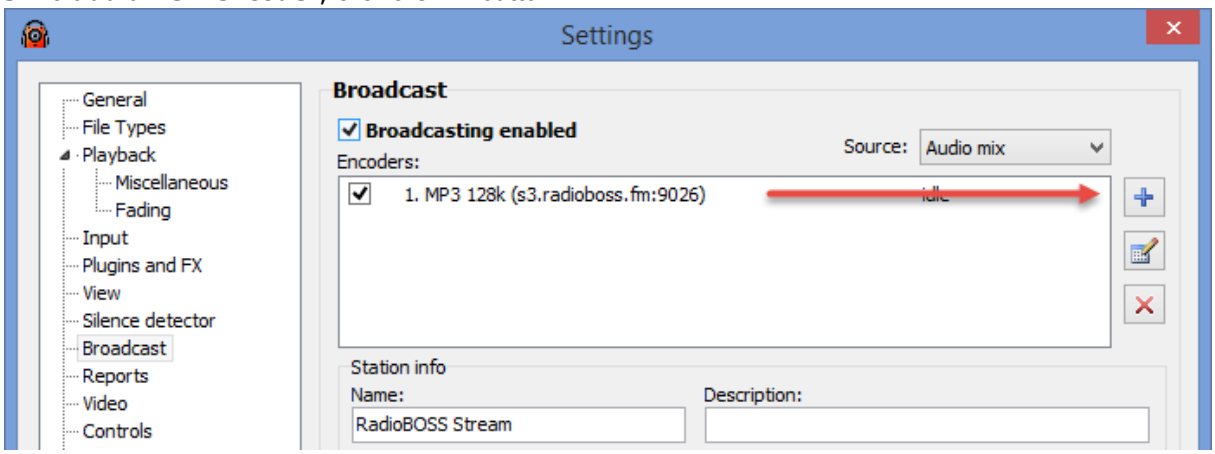
RadioBOSS lets you set up your own Internet radio station. The program can send audio stream to a Shoutcast, Icecast or Windows Media Server to broadcast it out to listeners. The software reads the audio data from a playlist and encodes it on the fly. It's possible to set up any number of broadcasting encoders.

To broadcast an Internet radio, follow the steps below:

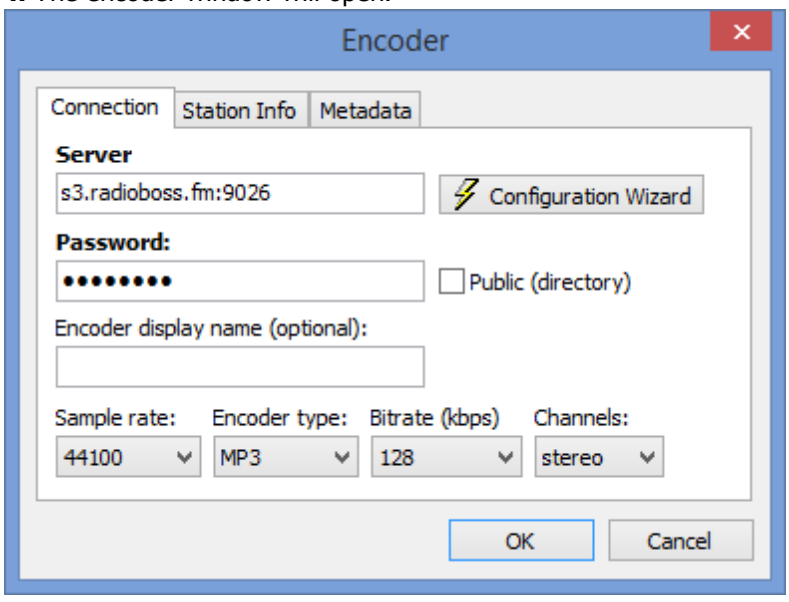
1. In the top menu bar, select **Settings -> Options...**

2. In the **Settings** window, select **Broadcast**.
Fill in your station info: station name, description, URL, genre and other parameters. This is the global station information and is used for all encoders. Any encoder can override this information if needed.

3. To **add a new encoder**, click the "+" button.



4. The encoder window will open.



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You can use the **Configuration Wizard** or enter all connection details manually.

Server address and password are provided by your stream hosting provider (unless you are using your own server). You can usually find this information on the hosting control panel.

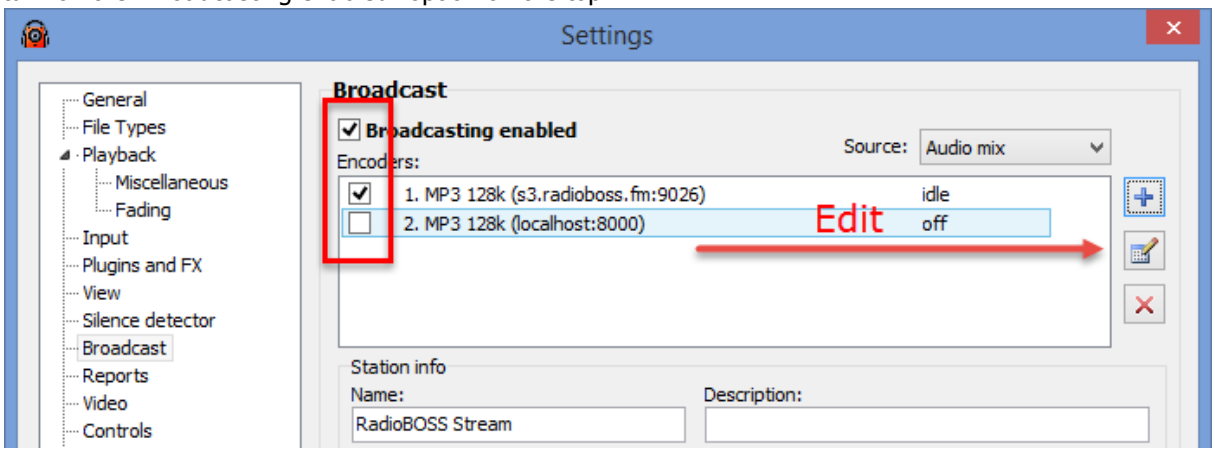
Metadata encoding: It is recommended to leave the "Auto" setting, which works fine in most cases.

Sample rate, **Encoder type**, **Bitrate**, and **Channels** set the broadcasting format. Please consult with your stream hosting provider about which format to use. If you are not sure, leave the default one: 44100 MP3 128kbps stereo.

The **Station Info** tab allows you to override the global station information for the encoder.

Once you have entered all the settings, click **OK**. The encoder will be added to the encoders list.

5. In the Settings window, check the check boxes for all encoders that you want to use. Remember to turn on the "Broadcasting enabled" option on the top.



6. Click **OK**.

On successful connection, the report in the bottom-left corner will show the following message: **Connected to server! (output N).** It means that listeners can connect to the streaming server and listen to your radio.

If the setup is incorrect, RadioBOSS will show an error message in the report. The error message will describe the problem and show the number of the encoder that failed to start (e.g. "output 1").
If this is the case, open the Settings window, select that encoder in the list, and click the Edit button to fix the configuration.

You can view audience statistics in the **Statistics window**. To open it, click "View" –> "Broadcasting statistics," or click the "Statistics" button on the toolbar.

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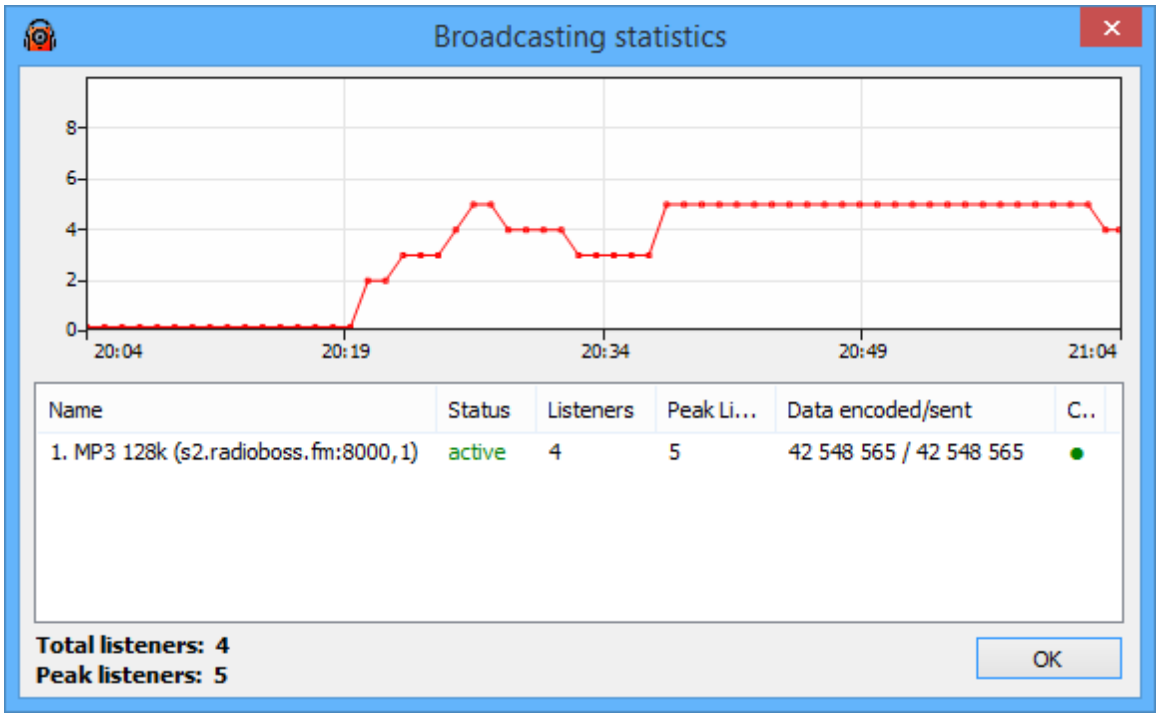

Most common error messages:
Cannot start broadcasting (output N): Error 2100
The specified password is incorrect. Please check the password.

Cannot start broadcasting (output N): Error 2
The server is not available or the specified server address is incorrect. The problem is probably caused by entering an incorrect address or port. Unless you are using Windows Media Services, make sure that there is no "http://" or "ftp://" in the server address.
Other reasons: Some anti-virus software or a firewall is blocking the connection, or no network connection is present.

Cannot start broadcasting (output N): Error -1
The most common reason for this error: Someone is already connected to the server.

Once the broadcasting properties are properly configured, RadioBOSS will broadcast whatever is currently playing(*) via the Internet radio station in real time.

(*) The **Source** drop down box (located above the encoders list) selects the sound source for broadcasting encoders:

Audio mix	Whatever is playing in the playlist, will be encoded (this is the default setting).
Input 1 **Input 2**	Input 1 or Input 2 will be used as a source. This setting is useful if you have a mixer board and want to broadcast its output. In this case, the mixer board should be connected to the corresponding sound card input. You can configure the inputs via the Settings: Input.

More information:

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Creating a music library
Generating a playlist
Broadcast settings

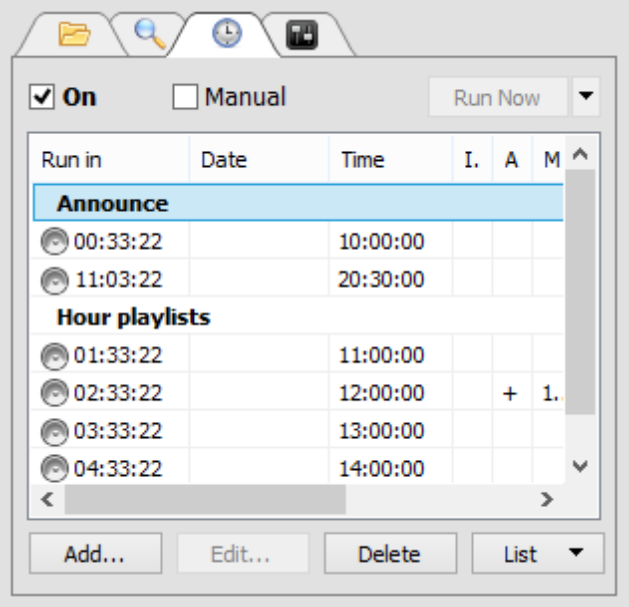
4.2 Scheduling playback

RadioBOSS lets you schedule tracks for automatic playback at predefined times. You can use the built-in scheduler to insert announcements and advertisements into the playback. The scheduler can play single files or playlists, and start Internet streams or line input.

You can also schedule commands for automatic execution (e.g. take a random playlist or track from a folder, change the volume, generate a playlist, and more). Most of the commands can be easily scheduled using the wizard.

To create a scheduler event, follow these steps:

1. In the **Control Panel**, select the **Scheduler** tab.
The scheduler window will open, with a list of all events scheduled:



2. Click the **Add...** button.

The **Event** dialog will open, where you can configure the scheduling parameters.

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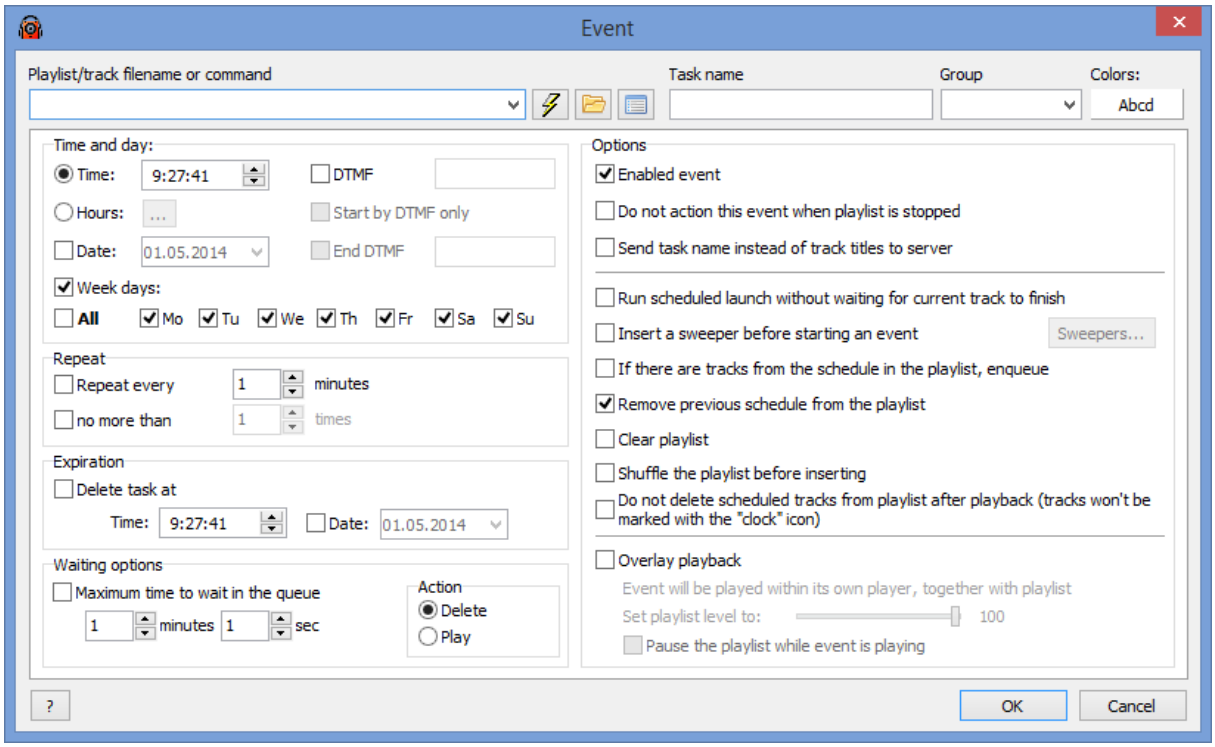
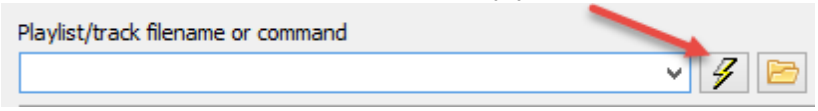


3. Click the **Open** button.
The Open dialog will open. Here you can browse through the folders and select a file (track or playlist) to play.

You can also use the Wizard, which will help you create an action:



4. Set the date and time.

You can select a specific day and time to play a file only once, or schedule a repeated playback at a specific time on particular days. The scheduler also provides additional options to fine-tune the playback according to your preferences.

5. Click **OK** to save the scheduled task.

The task will be added to the task list in the scheduler window.

Related topics:
Event options
Scheduler commands

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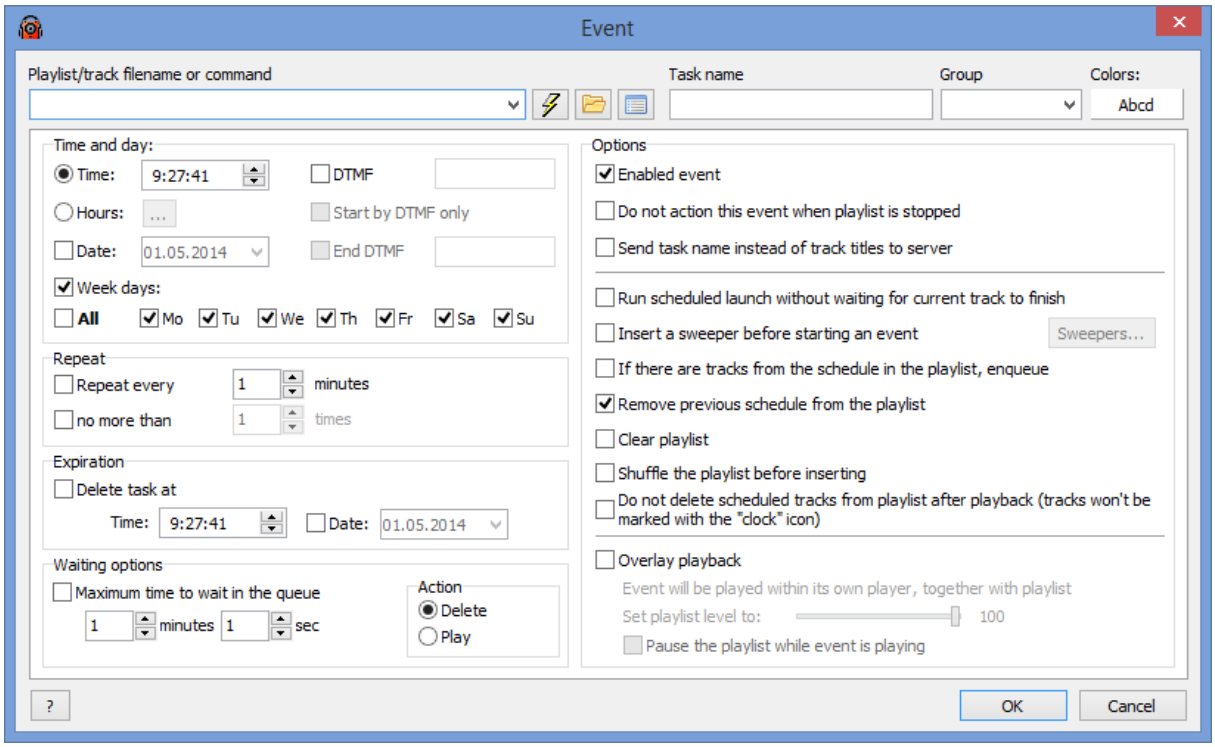
4.2.1 Event options



Event window

Playlist/track filename or command: A playlist, music track, or URL that will be launched on the schedule.
This field can contain one of the commands.

A substitution macro can be used in the file name:

?yyyy	current year (4 digits)
?mm	month (2 digits)
?dd	day (2 digits)
?hh	hour (2 digits)
?nn	minute (2 digits)

You can use this option to get a different playlist every day with only one scheduler entry.
Example: The file name is "**C:\Playlists\?yyyy-?mm-?dd.m3u**" and the current date is February 2, 2012. Using the above parameter will open the playlist with the filename "**C:\Playlists\2012-02-02.m3u**"; the next day, it will open "**C:\Playlists\2012-02-03.m3u**" (and so on).

To easily enter commands or advanced playback options, click the **Wizard** button.

You can assign several actions to a task by clicking the button.

Task name: any string that helps you to identify the event in the list (can be left blank).

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Group: a group to which an event belongs. This can be left blank - in this case, an event will not belong to a group, or you can enter a group name (or click the down arrow if you would like to select from the existing groups). Groups help in keeping the list of events organized. You can change the color of a group by adding a **[#color]** tag after its name. For instance: **Ads[#red]** - it will be rendered in red in the list of tasks. The "**color**" option can assume the following values: red, green, blue, gray, yellow and other color names, as well as color codes in hexadecimal RGB format **[#AABBCC]**.

Colors: event coloring in the list. Click a box to select colors.

The **Delete** button removes a task from the list.

The **Save as New** button saves a task as a copy (instead of editing it).

Time and Day

In this section, you can specify the time and day of week for launching the track or playlist.

Date and **Time** fields: Specify the launch date and time.

Hours: Specify hours, minutes, and seconds for launching an event. To set up the parameters, click the "..." button.

If the **Date** check box is checked and **Week days** is unchecked, the track will be launched only on the date specified. If both **Date** and **Week days** check boxes are checked, the date will determine the start date: The event will be launched on the selected days of week on and after the specified date.

Week days: Specify the days of week for launching an event. This option lets you make a schedule for the whole week.

An event can also be started by a DTMF signal. For more information, please refer to this topic.

Repeat

Repeat every [X] **minutes no more than** [Y] **times**: The task will be launched the specified number of times at equal time intervals. For example, if the option is set to repeat every 15 minutes no more than 10 times, the task will be executed once at the scheduled time (e.g. at 01:05), and then 9 times at 15-minute intervals (at 01:20, 01:35, 01:50, etc.). A warning icon will appear if repeats exceed 24 hours (which can then lead to unneeded event launches).

Expiration

Delete task at: Set the task expiration time. The task will be removed from the list at the time specified.

Waiting Options

Maximum time to wait in the queue: Specify for how much time the event can stay in the playback queue. If the playback is not started during the specified time, an action will be performed:

- **Delete**: the tracks will be removed from the queue.
- **Play**: event will launch and interrupt the currently playing track

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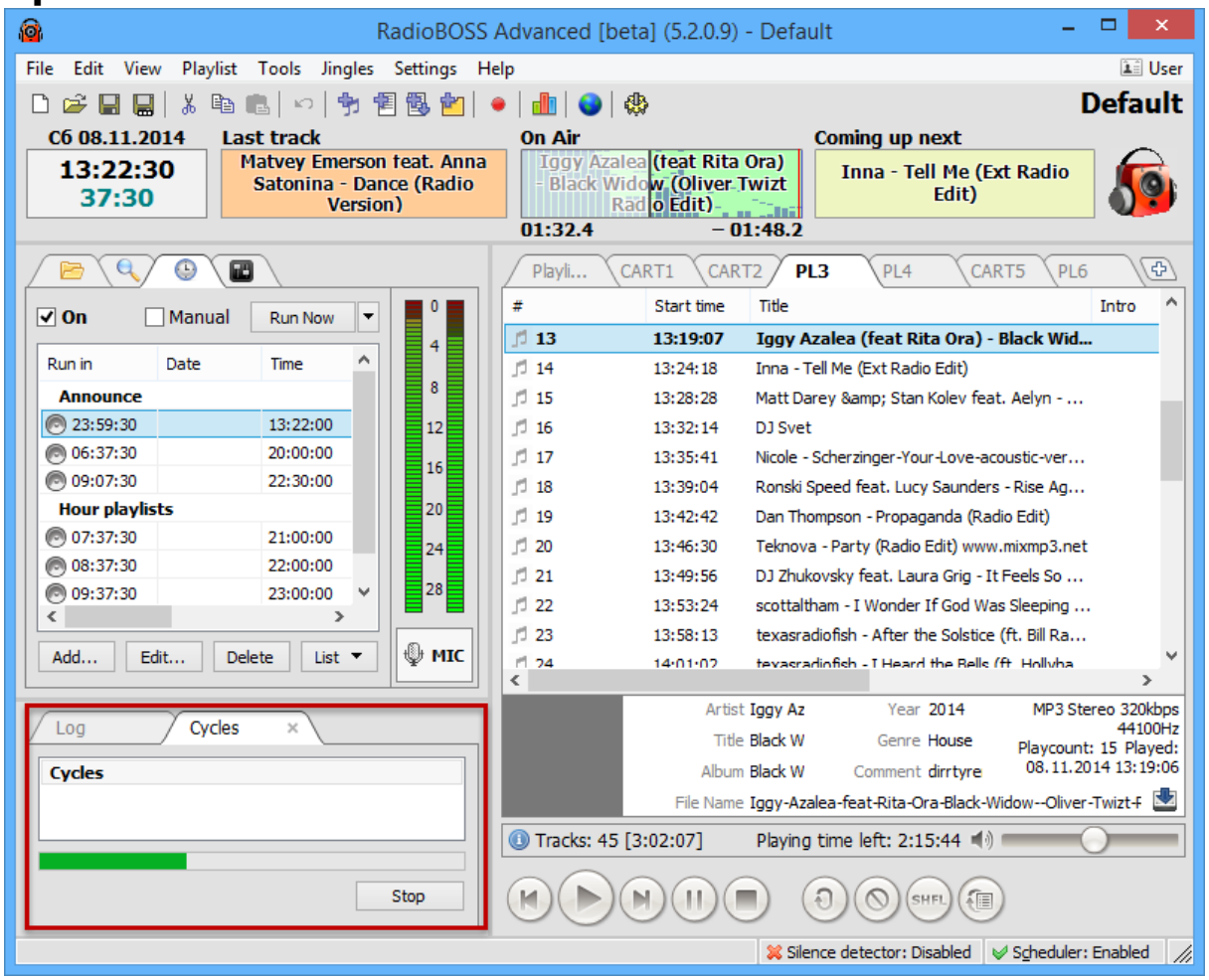
Options



Example: A playlist with the scheduled tracks and "Overlay playback" event playing

Enabled event	To temporarily disable the event, uncheck this box.
Do not action this event when the playlist is stopped	If the playlist is not playing, the event will not be launched.
Send task name instead of track titles to server	A task name, not individual track titles of the event, will be sent to the server.
Run scheduled launch without waiting for current track to finish	If this option is turned on, the track/playlist will be played at the time specified in the "Time" field. Otherwise, it will be queued and played after the current track is finished.
Insert a sweeper before starting an event	Insert a sweeper before starting an event. Sometimes (usually at the end of an hour) a song playback can be just started, but after e.g. 10 seconds there's a scheduled event that is about to launch - this will interrupt the song. To avoid this situation, RadioBOSS can insert a **sweeper**, in this case a song won't start, and instead a 10 second sweeper will play, and then an

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	event will go. Click the "**Sweepers...**" button to select a folder with sweepers. The more sweepers with different durations that the folder contains the better.
If there are tracks from the schedule in the playlist, enqueue	If the playlist contains tracks scheduled for playback by another event (tracks with the "clock" icon), insert new entries after them (after track #14 in the example above). Otherwise, the tracks will be inserted after the track being currently played (after track #9 in the example).
Remove previous schedule from the playlist	When the task is started, all the tracks scheduled earlier will be removed from the playlist. In the example, tracks #6 to #14 will be removed from the playlist.
Clear playlist	The current playlist contents will be removed.
Shuffle the playlist before inserting	If the "Playlist/track filename or command" field contains a playlist name, the playlist will be shuffled before inserting.
Do not delete scheduled tracks from the playlist after playback	Usually, scheduled tracks are automatically removed from the playlist after playback. Checking this option will prevent this from happening, so the tracks will be kept in the playlist. This option has some usable side effects: • Tracks won't be marked with the "clock" icon. Instead, they will be marked as regular playlist tracks. • The queuing options won't consider those tracks as scheduler tracks. The options are as follows: * If there are tracks from the schedule in the playlist, enqueue them * Remove the previous schedule from the playlist
Overlay playback	If this option is turned on, the track will be played on its own player, along with the playlist. You can decrease the volume of the background music using the music level slider ("Set the playlist level to") below. In the example, the track "04 (4.6s)" is overlaid on the background music.
Pause the playlist while event is playing	If this option is turned on, the playlist will be automatically unpaused when playback is finished. It is useful for announcements when you don't want to interrupt the currently playing track.

More information:
Scheduler commands

4.2.2 Starting events by DTMF signal

Scheduled events can also be started by a DTMF signal. It is useful when you need to rebroadcast another station and insert regional advertisement blocks: DTMF can be used for synchronization.

DTMF configuration

First, select a source where DTMF will be checked. In the Settings window, select DTMF.

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Select an input (Input1/Input 2) or URL. If you selected "URL," enter a network stream URL; the application program will connect to that URL and look for DTMF tones in the stream.

RadioBOSS will automatically activate or deactivate the DTMF detector when necessary.

Setting up events

In the event properties window, check the "DTMF" check box and enter a DTMF sequence (e.g. "764C"). A presence of the DTMF tone will be checked 5 minutes before the event startup time. For example, if the event is supposed to start at 01:00:00, DTMF will be checked from 00:55:00 to 01:00:00. If no DTMF is detected within that time frame, the event will be launched at the predefined time. You can change the 5-minute time frame via the DTMF tab in Settings.

To start an event only by a DTMF signal, check the "**Start by DTMF only**" check box. If this option is turned on, the time/day settings will be ignored and the application will always look for the DTMF tone. In this case, events will be started by DTMF only. If no DTMF tone is detected, the scheduled event will not start.

To end an event by a DTMF signal, check the "**End DTMF**" check box and enter a DTMF sequence.

4.2.3 Scheduler commands

List of available scheduler commands.

Note: The event window has a **wizard** that can enter most of the commands for you automatically. So most of the time, there is no need to enter commands manually.

play X	Play track number X in the playlist
stop	Stop playback
next	Proceed to the next track
prev	Return to the previous track
run filename parameters	Launch any program or batch (.bat) file Example: **run C:\dosomething.bat** **run C:\AnyProgram.exe -switch1 -switch2**
generate preset_name **generate [pro] preset_name**	Create a playlist from the playlist template called **preset_name** (created earlier in the playlist generator). For example, there is a template named "ROCK 2 Hours" (without quotes). To generate a playlist using that template, use the following command: **generate Rock 2 hours** The command to generate a playlist using Playlist Generator Pro looks like this: **generate [pro] preset_name**
setvol x	Set the volume to X (0 to 100). For example, setvol 70. Moreover, you can specify the duration (in milliseconds) for the volume to reach the desired level (syntax: **setvol X time_ms**). For example, setvol 70 500 will set the volume level to 70 over a period of 0.5 second.

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load filename	Load the *filename* file. The file can contain a profile (.prf), playlist (.m3u), or scheduler task list (.sdl). If the full pathname is not specified, the application will look for a profile in the \Profile folder, for a playlist in the \Playlist folder, and for a scheduler list in the \Presets\Schedule folder. A playlist will be loaded into the Main list.
getrandomplaylist Path	Load a random playlist from the folder specified in Path. Example: **getrandomplaylist d:\music\playlists** The playlist loaded will be added to the end of the current playlist.
clearplaylist	Clear the playlist
reboot	Restart the system
poweroff	Shut down the system and turn off the power
connect **disconnect**	**connect** — connect to the broadcasting server. If no parameters are specified, the application will connect to all servers specified in the settings. You can use a value from 1 to N as a parameter for connecting to a specific server. **disconnect** — disconnect from the server. The parameters are the same as for **connect**.
scheduler on **scheduler off**	Temporarily turns on/off the scheduler. These commands are useful for live shows. **scheduler off** — suspend the scheduler. No events will be started except for ones with the "scheduler on" command. **scheduler on** — turn the scheduler on from the suspended state. This command works only if the scheduler was turned off using the "scheduler off" command. It doesn't work if the scheduler was turned off manually by unchecking the "On" check box.
streamarchive on **streamarchive off**	Turn on/off the Stream Archive feature (menu: Tools -> Stream Archive)
makelibrary LibraryFile Dir1 Dir2 ...	Create or update a music library file. Command parameters are separated with the | character. The first parameter sets the path for saving the music library file. The second and following parameters are the folders to scan (including subfolders). Instead of path you can specify playlist or music library file. Example 1: Create a music library file named *my.xml* in the default Music Library folder, and add tracks from the "C:\Music" folder to that file. **makelibrary my.xml C:\Music** Example 2: Same as Example 1, but adds tracks from the "C:\Music" and "D:\MoreMusic" folders: **makelibrary my.xml C:\Music D:\MoreMusic** Example 3: Using the full path to the .xml file: **makelibrary "C:\path to save\my.xml" C:\Music** Example 4: Using playlist as source

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	makelibrary my.xml C:\playlist.m3u8 Attention! If the name of a file or playlist contains spaces, enclose it in quotation marks. **Example:** **makelibrary "Muzica Italiana.xml" "D:\Muzic\Music Italia"**
adsupdate	Update advertisement events and playlists. Executing this command will produce the same result as clicking the "Create playlists and event" button in Ads Scheduler.
createbackup FileName	Create a backup of application settings and events, saving it to the specified file. Example: **createbackup C:\RB_backup.7z** **createbackup C:\RB_Backup_?yyyy-?mm-?dd.7z** In the second example, a substitution macro is used.
folder_path **folder_path/**	Add tracks from a folder to the playlist. If path ends with "/" then tracks will be added in random order, otherwise tracks will be added in alphabetic order Example: **D:\Music** or **D:\Music** - add tracks from D:\Music folder in an alphabetic order **D:\Music/** - add tracks from D:\Music folder in random order
download URL FILENAME	Downloads a file from the URL and saves it as FILENAME To trigger a specific URL, without saving any file, omit the FILENAME parameter (can be used to send notifications). Example: **download http://www.example.com/file1.exe D:\savedfile.ext**
fadeout time_ms	Fade out the playlist playback in time_ms milliseconds. Example: fadeout 500
set com(1-9) (dtr|txd) **clr com(1-9) (dtr|txd)**	Set/clear the value at the com-port out; out can be either dtr (pin 4) or txd (pin 3). For example: **set com1 dtr** — set high dtr com1 level; **clr com2 txd** — clear (set low level) at txd com2 out. Low com-port level corresponds to –12V and high level to +12V.
set func_name **clr func_name**	Enable/disable the func_name mode. For example, **set shuffle** — enable shuffle (random playback); **clr repeat_track** — disable track repetition. **func_name** can be one of the following: repeat_track break shuffle repeat_list (These names correspond to the four modes that can be set via the

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	buttons shown in the playlist below.)
setencodersource SRC	Change the sound source for broadcasting encoders. Possible **SRC** values: 0 - Audio mix 1 - Input 1 2 - Input 2 For more information about encoder sources please refer to this page: Broadcasting Internet radio Example: **setencodersource 0**
silencedetector on **silencedetector off**	Turn on and turn off the silence detector **silencedetector on –** enable **silencedetector off** – disable
getfile C:\path_to_folder [/random|/newest|/ oldest] /delete	This command adds one file from the specified folder to the playlist. It can select the oldest or newest file (by the adding date), or a random file. Syntax: **getfile C:\path_to_folder [/random|/newest|/oldest] [/ delete]** Example: Play one file from the ads folder, and then delete that file: **getfile C:\announcements /newest /delete** If you prefer to keep the file after playback, omit the delete parameter.
playrequestedsong **playrequestedsong N**	To automatically play the requested songs, use the **playrequestedsong** command. Optionally, you can specify a minimum time interval (in minutes) to delay song request playback: some music licensing authorities require a delay before the requested song can be played. Example: **playrequestedsong 30** - delay requested song playback for at least 30 minutes. The scheduled event with the playrequestedsong command should be set up to repeat, e.g. every 10 minutes during the time period when you want to accept song requests. See also: Remote Control API song request actions: **songrequest**, **songrequestclear**

4.3 Generating a playlist

Playlist Generator Pro

Playlist Generator Pro can help you create playlists with a given structure (rotation) that will determine which tracks, from which source(s), and how many ones will show up in the playlist. In addition, there is an option for preventing repeating of the tracks, filters, and other rules. Playlists can be generated

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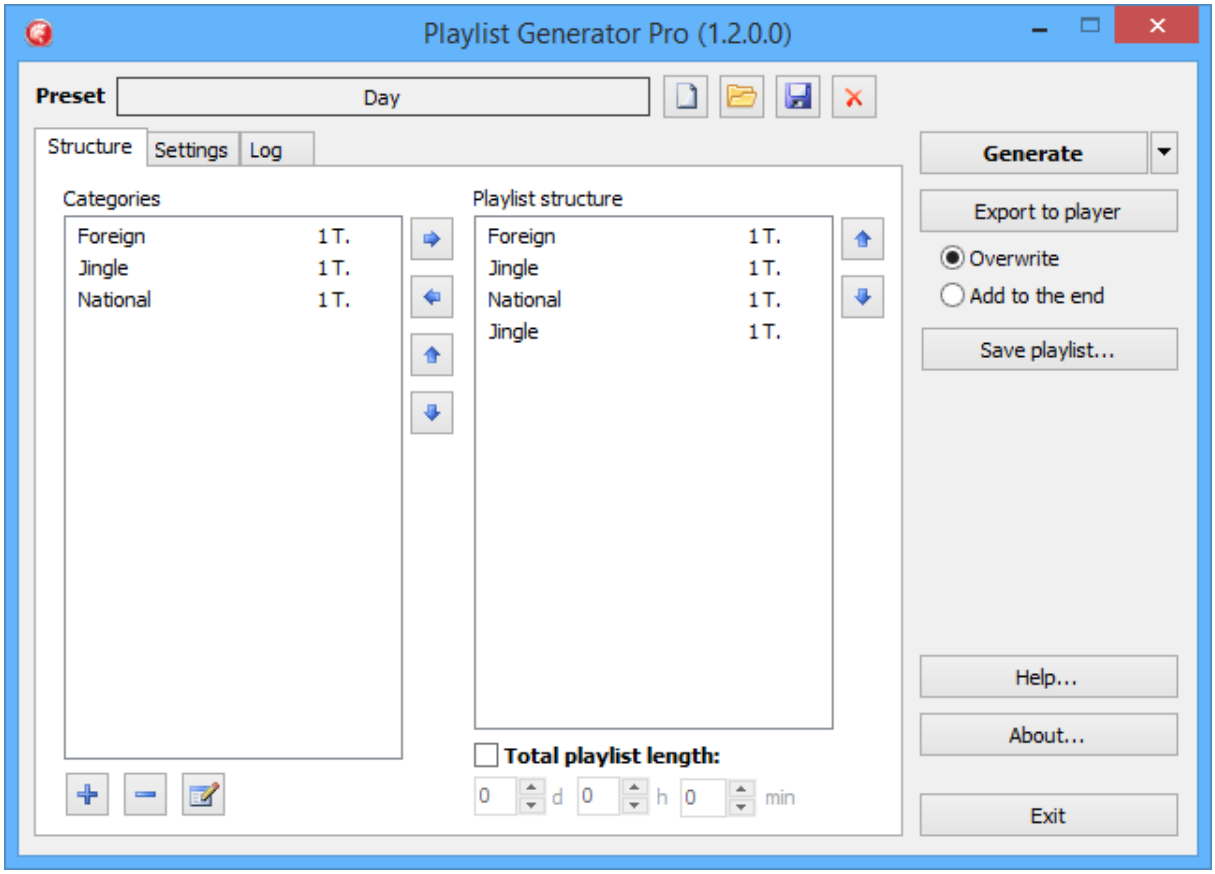
manually or automatically by schedule.

You can launch Playlist Generator Pro from the menu: **Playlist** -> **Playlist Generator Pro.**



General information and an example of use

A playlist is generated according to a given structure (rotation), which consists of categories.
A category consists of tracks that will be used in the playlist.

Example:
Say, you want to create a two-hour-long playlist with the following rotation:

- Foreign track
- Jingle
- National track
- Jingle
- Foreign track
- Jingle
- National track
- Jingle

...and so on.

As you can see, there are only three different types of tracks in this rotation. So three categories of tracks will be created: **jingles**, **foreign tracks**, and **national tracks**.

To create a category, click the "**+**" button below the list of categories. A window with category options

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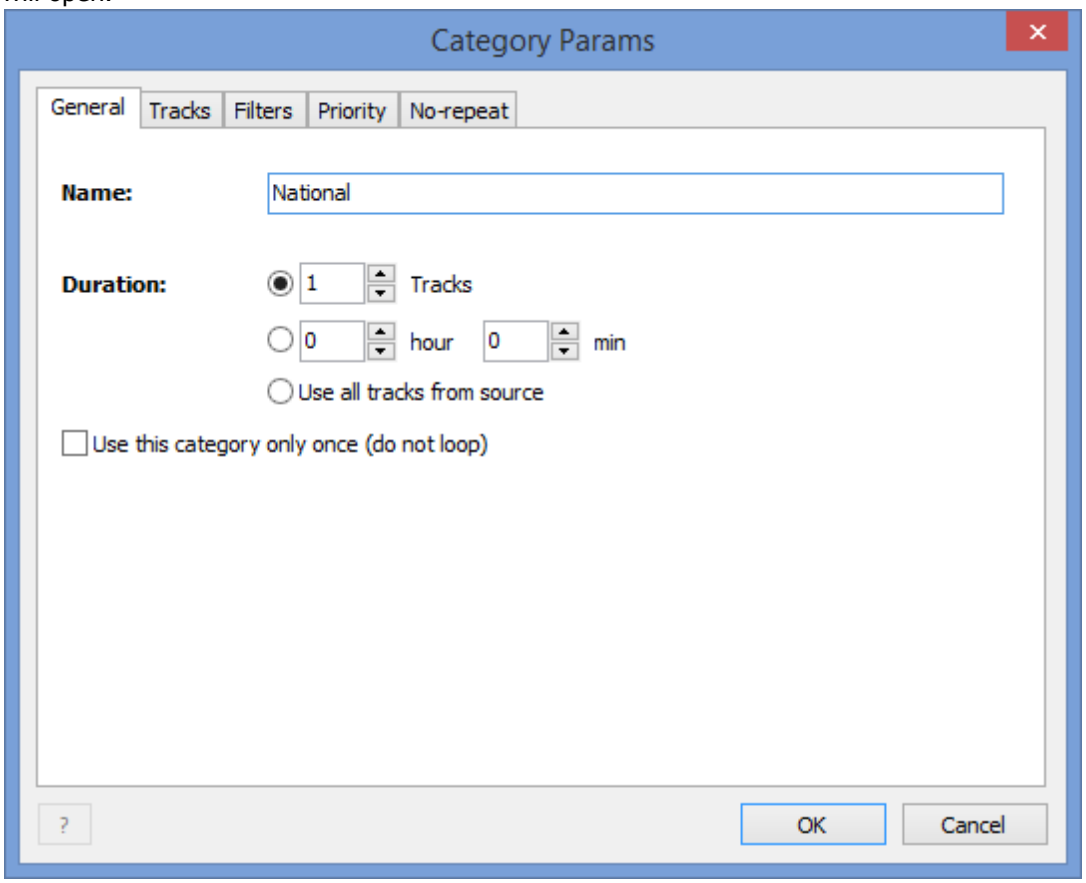
will open:



• On the **General** tab, enter a Category **name** (for example, "Foreign"; this name will be used in the list), **duration** (for the example above, one track). For jingles, sweepers, and nonmusical tracks, it is recommended to check the **Ignore "Do Not Repeat Artist/Track" options** check box.
• On the **Tracks** tab, enter the source of tracks for the Category. It may be a playlist, folder, music library, or track — whatever better suits your needs. RadioBOSS will select the appropriate number of tracks from that source.
• Click **OK**.
• Create other categories in a similar fashion.

Once all categories are created, define the structure of the playlist. To do that, select a category in the list and click the right-arrow button (you can also drag-and-drop a category). The category will be added to the Playlist Structure. To change the order of categories in the list, use the up-arrow and down-arrow buttons. To delete a category from the list, use the "–" button. To move categories within the list, drag-and-drop them.

In the example above, the following playlist will be created:
* Foreign track
* Jingle
* National track
* Jingle
It means that the Playlist Structure will include only these four items.

In the example, we needed a two-hour-long playlist, so we checked the **Total playlist length** check box and set the corresponding parameter at 2 hours 0 minutes. (If the check box were unchecked, the

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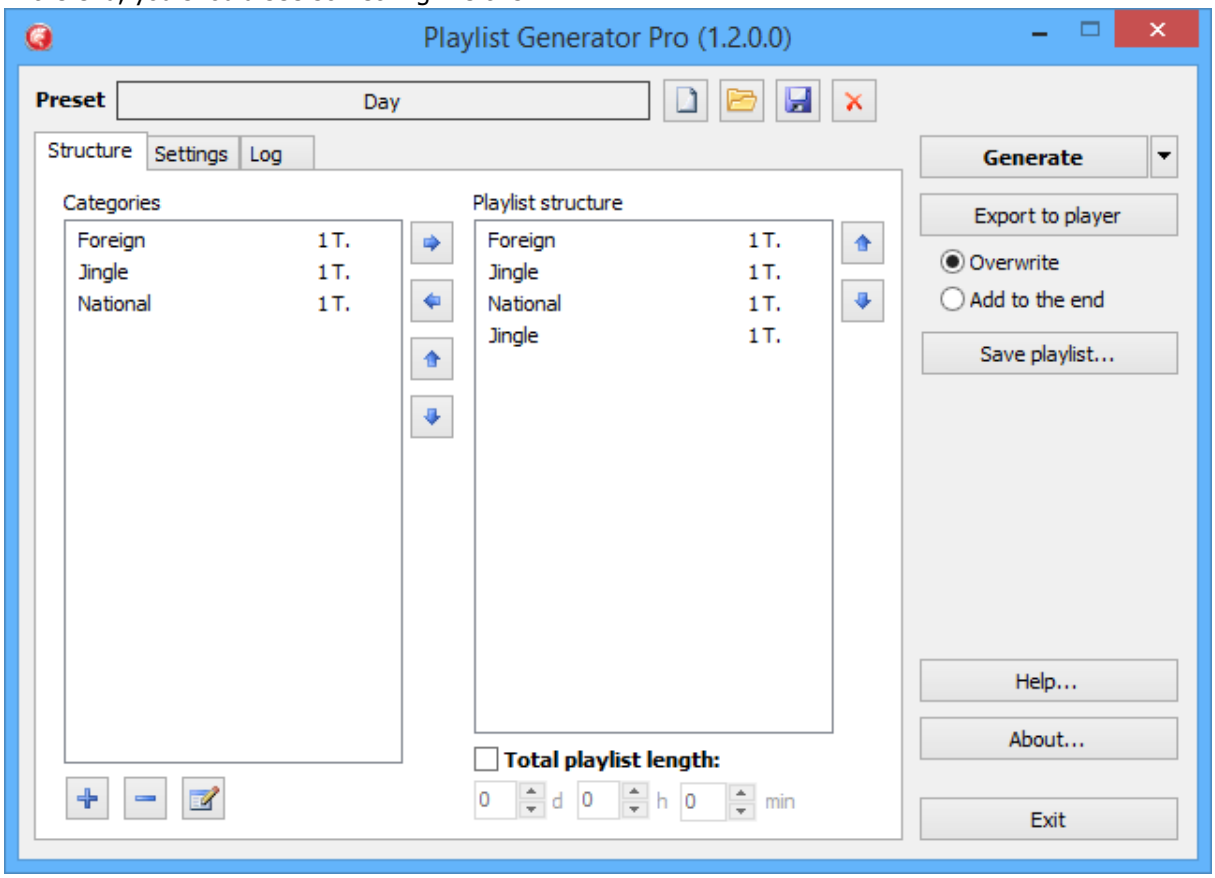
generator would go through the Playlist Structure only once, and then the playlist generation would be finished.)
When the **Total playlist length** check box is checked (as in the example), the generator will repeat the pattern (cycling through the Playlist Structure) until the desired duration is reached.

In the end, you should see something like this:



On the Settings tab, you can set various no-repeat rules to improve the resulting playlist:

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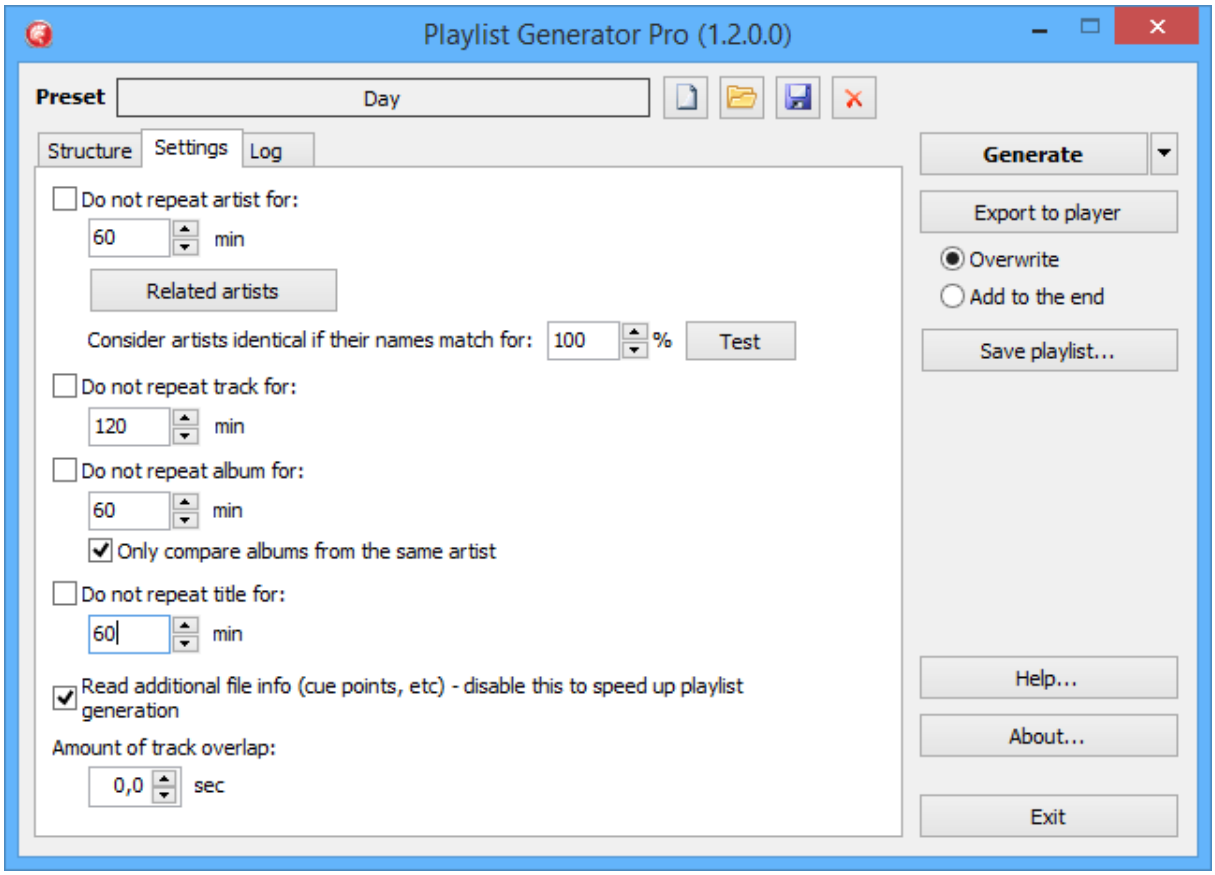

To save the generation options for future use, click the **Save playlist** button in the top-right corner of the window. To rename a preset, right-click it's name. You can use the saved **Preset**, for example, for automatically scheduled generation of playlists.

To create a playlist, click the **Generate** button. The Report tab will open, where you can see the generation progress, errors, and the resulting length.
To load the playlist into RadioBOSS right away, click the **Export to player** button.
The **Save playlist** button saves the created playlist to a file.

To create several playlists at once, click the down arrow next to the Generate button and select **Generate multiple playlists...**.

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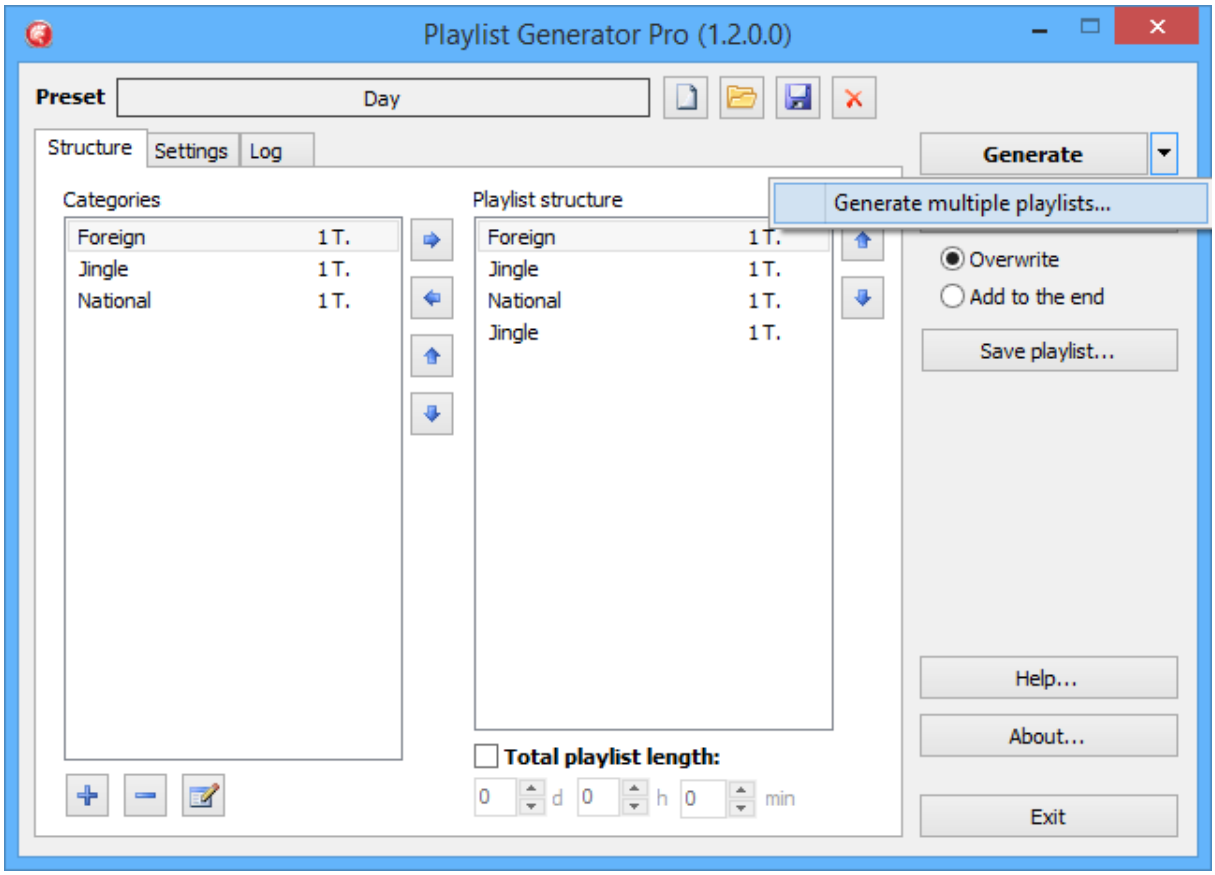
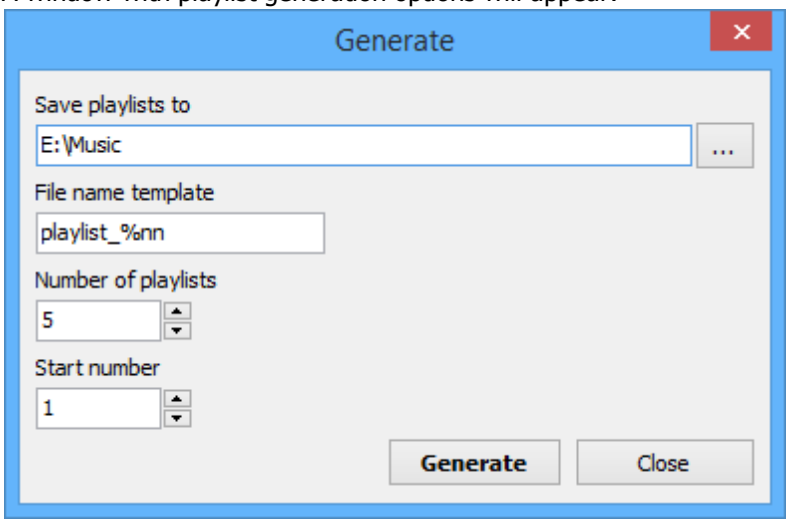


A window with playlist generation options will appear.



File name modifiers:
%n - a number with no leading zeros (1, 2, ... 10, ... 100).
%nn - a number padded with one leading zero (01, 02, ..., 10, 100).
%nnn - a number padded with two leading zeroes (001, 002, ..., 010, 100)

See also

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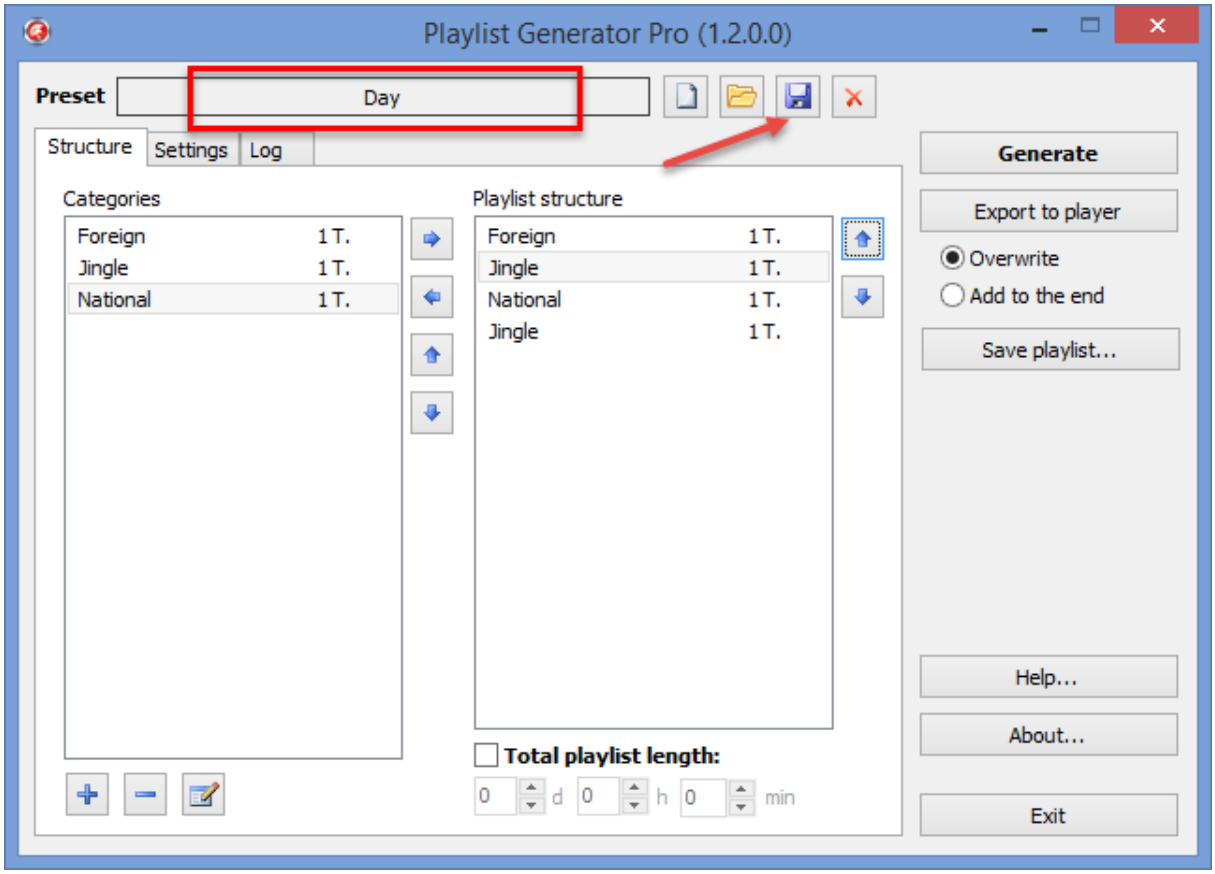
Command line interface
Playlist Generator Pro Settings
Categories

4.3.1 Automatic Playlist Generation

This guide will help you automatically generate playlists on schedule using Playlist Generator Pro.

First, create a preset in the Playlist Generator Pro and save it. It is called "Day" in the example.



After creating the preset, close Playlist Generator Pro and do the following:
1. Create a new scheduler event in RadioBOSS.
2. Click the Wizard button. Select "Perform an action", and then click "Next."

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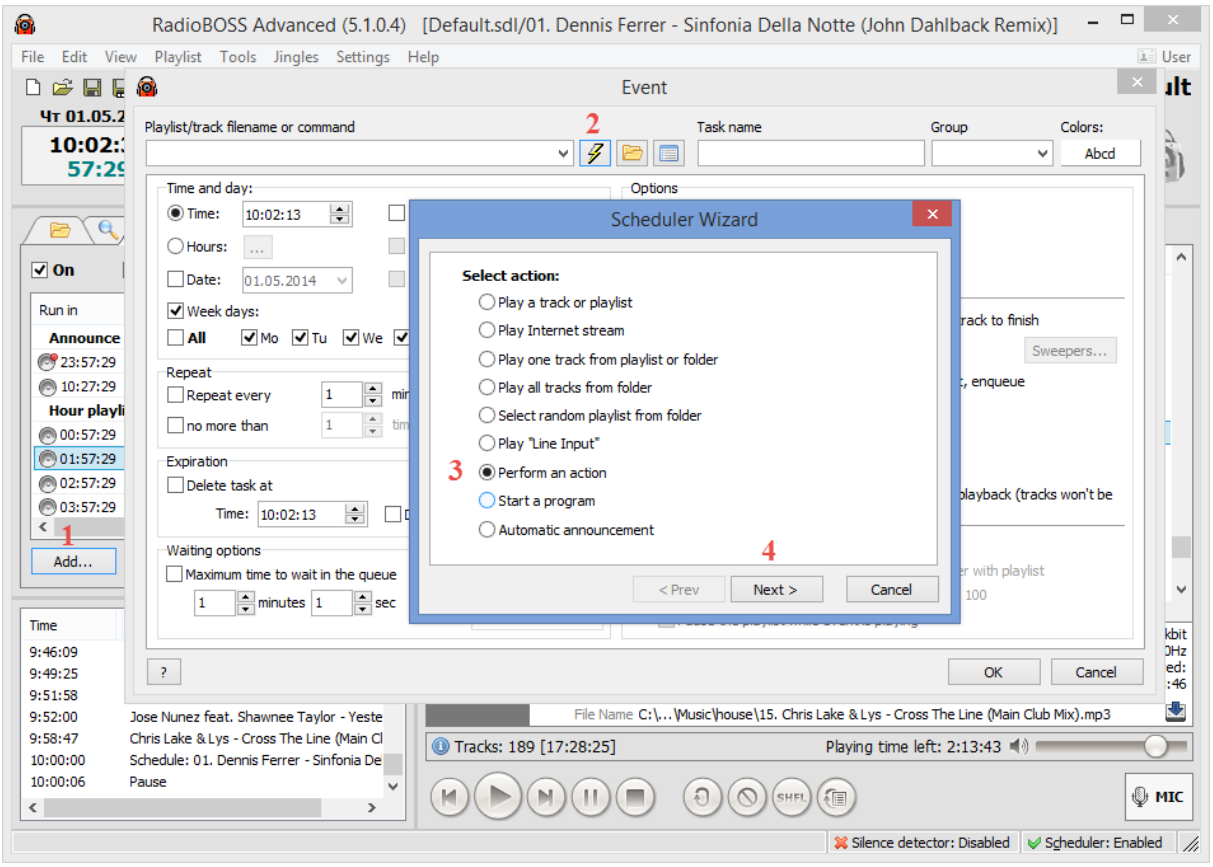
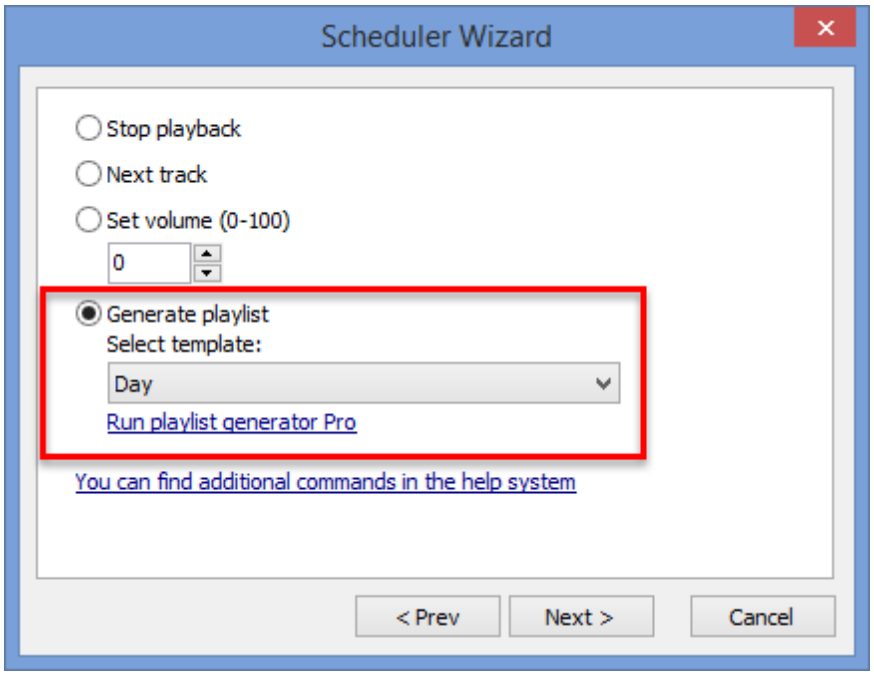


In the wizard window below, select the preset. Presets created in the Playlist Generator Pro come with the **[pro]** prefix. Click "Next" to generate a command and insert it into the "Filename/Command" field of the event.



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You don't have to use the Wizard each time. The command to generate a playlist with Playlist Generator Pro has the following format:
generate [pro] preset_name

Substitute **preset_name** with the preset name you would like to use.

After creating an event, RadioBOSS will automatically generate playlists at the specified time and start the playback.

4.3.2 Command Line Interface

Playlist Generator Pro command line parameters

You can use the command line interface to automatically generate playlists and save them to a specified location.

Usage: **PlaylistGeneratorPro.exe -preset=PRESET -out=PLAYLIST [-n=N]**

Options:
-preset= specifies the preset name
-out= specifies the file name for saving the generated playlist (use a full path with the extension .m3u8)
-n= how many playlists need to be generated (default = 1). If used, the **-out** option need to contain one of the modifiers: **%n**, **%nn** or **%nnn** (see below for more information)
-s= when using "-n", the -s option sets the starting number for playlist naming. Example: **-s=5**

Example: generate a playlist using the MyPreset preset and save it to C:\playlist.m3u8
PlaylistGeneratorPro.exe -preset=MyPreset -out=C:\playlist.m3u8

Warning: If the name of a present contains a space, parameters must be encased in quote marks:
PlaylistGeneratorPro.exe "-preset=My Preset" "-out=C:\Folder name\playlist.m3u8"

You can use the **run** command in the scheduler together with the command line interface to generate playlists and save them to a specific folder (for example, on a production machine). Unlike automatic playlist generation, doing that will only save a playlist but will not play it.

Example of such a scheduler event (note: there's no need to specify a full path to PlaylistGeneratorPro.exe program):
run PlaylistGeneratorPro.exe -preset=MyPreset -out=C:\playlist.m3u8

Generating multiple playlists in one run (-n option)

Note: when playlists are generated in batch, they share the same no-repeat buffer, which means it's possible to create several playlists for extended periods of time with no repeated tracks.

Example:
PlaylistGeneratorPro.exe -preset=MyPreset -out=C:\playlist_%nn.m3u8 -n=11

Warning: If a command is executed in a **.bat** file, the percent sign must be written twice:
PlaylistGeneratorPro.exe -preset=MyPreset -out=C:\playlist_%%nn.m3u8 -n=11

This command will generate 11 playlists and save them under the names:
C:\playlist_00.m3u8

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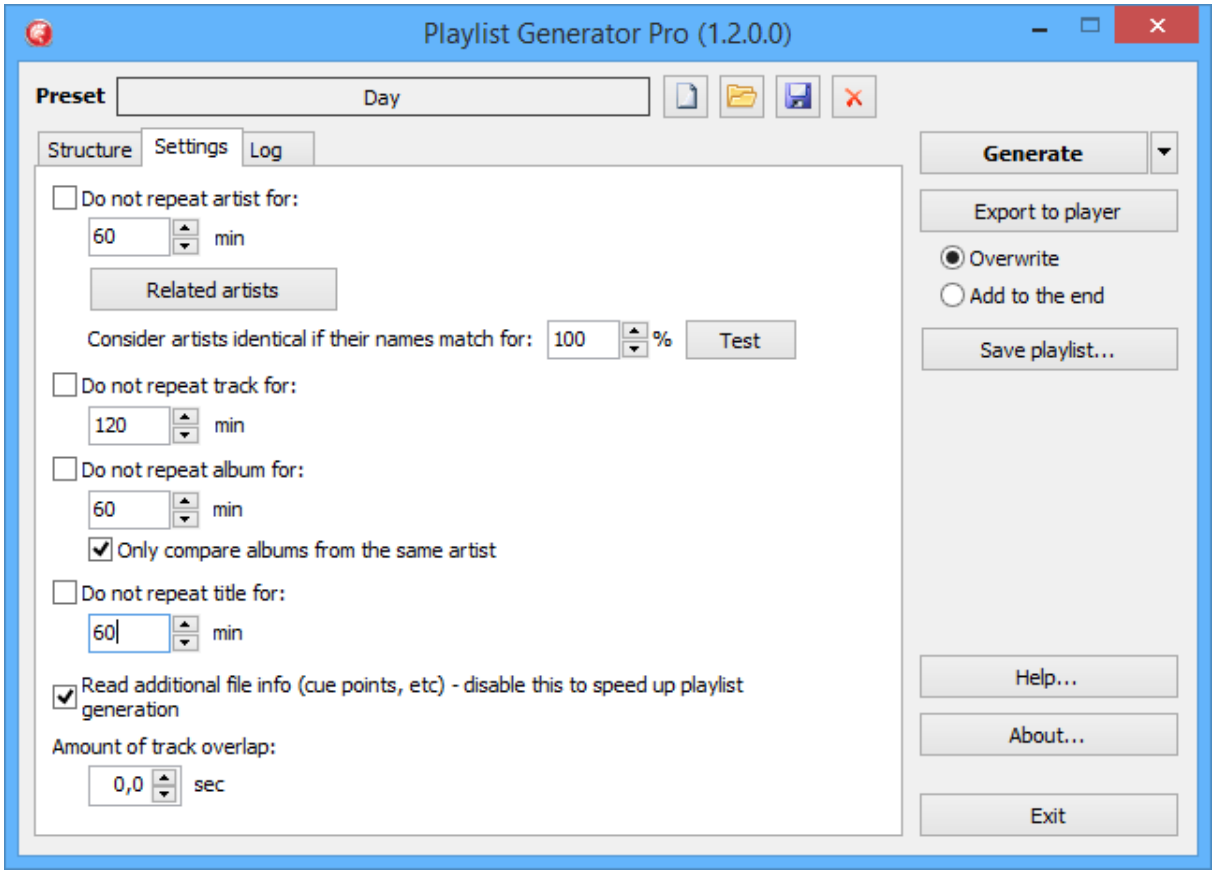
C:\playlist_01.m3u8
C:\playlist_02.m3u8
...
C:\playlist_10.m3u8

File name modifiers:
%n - a number with no leading zeros (1, 2, ... 10, ... 100).
%nn - a number padded with one leading zero (01, 02, ..., 10, 100).
%nnn - a number padded with two leading zeroes (001, 002, ..., 010, 100)

4.3.3 Settings

To improve the quality of the playlist, you can configure different repeat playback prohibition rules on the "Settings" tab:



Do not repear artist for ... - sets the period of no repetition for a particular artist, in minutes.

Related artists - allow you to prohibit the playback of songs by related artists. This option is used in situations where an artists is known under several stage names or when the same artists performs independently and as part of a band. To configure this function, click the "**+**" button in the "Related artists" window, add an artist and click "**OK**". Once done, open (double-click or right-click on "Edit") the new artist and enter related artists, one name per line, in the new window.

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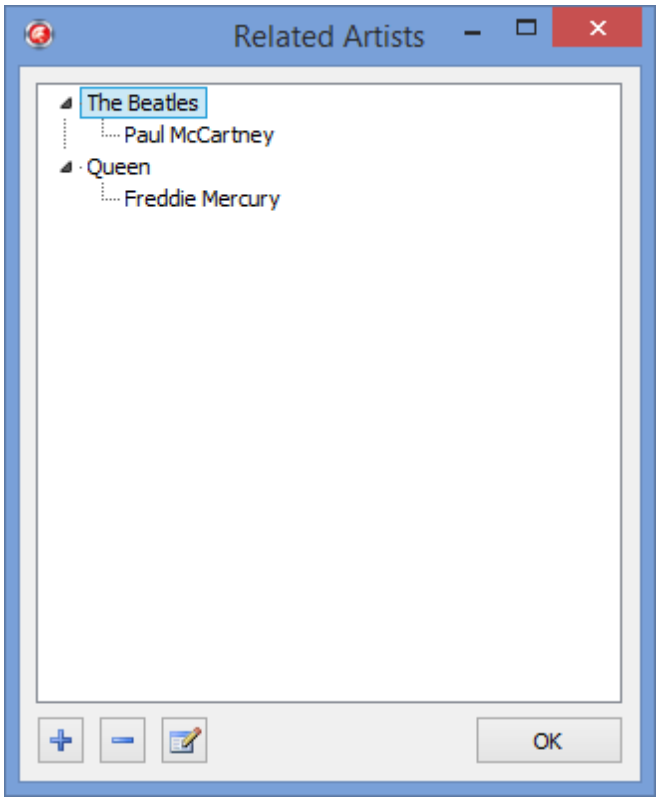

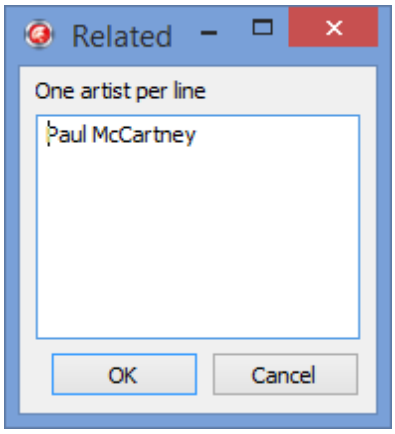

Consider artists identical if their names match for ... % - do not repeat artists with similar names. Adjust the accuracy of relatedness calculation. You can test the feature by clicking the "**Test**" button, entering some artists and seeing how similar they appear, in percent:

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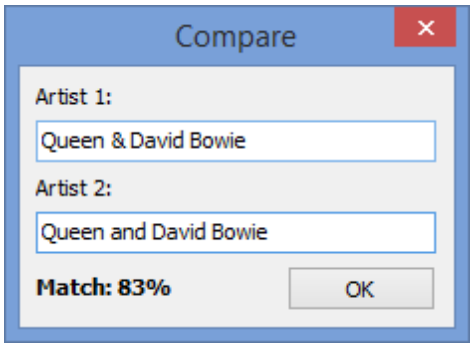

Do not repeat album for... – sets the no-repeat periodicity of an album, in minutes.

Do not repeat track for... – sets the no-repeat periodicity of a track, in minutes

Do not repeat track tirle – sets the no-repeat periodicity of a track name (for instance, in situations when different artists' tracks have the same title).

Keep the "**Read additional file information**" option enabled if you use priorities, filters, and need to take into account the track settings configured in the Track Tool.

Amount of track overlap – consider the duration of crossfades.

4.3.4 Categories

To create a category, click the "+" button under the list of categories:

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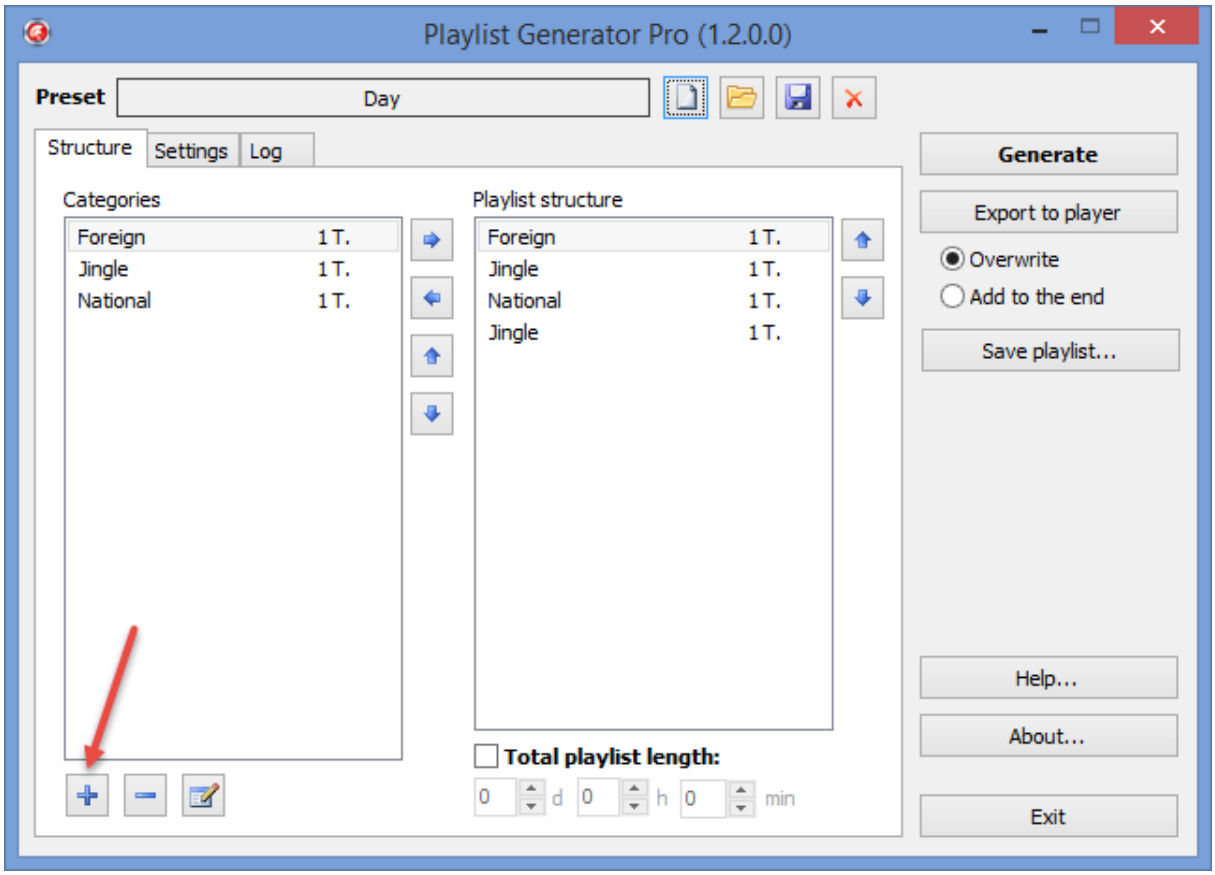

You will see the category settings window:

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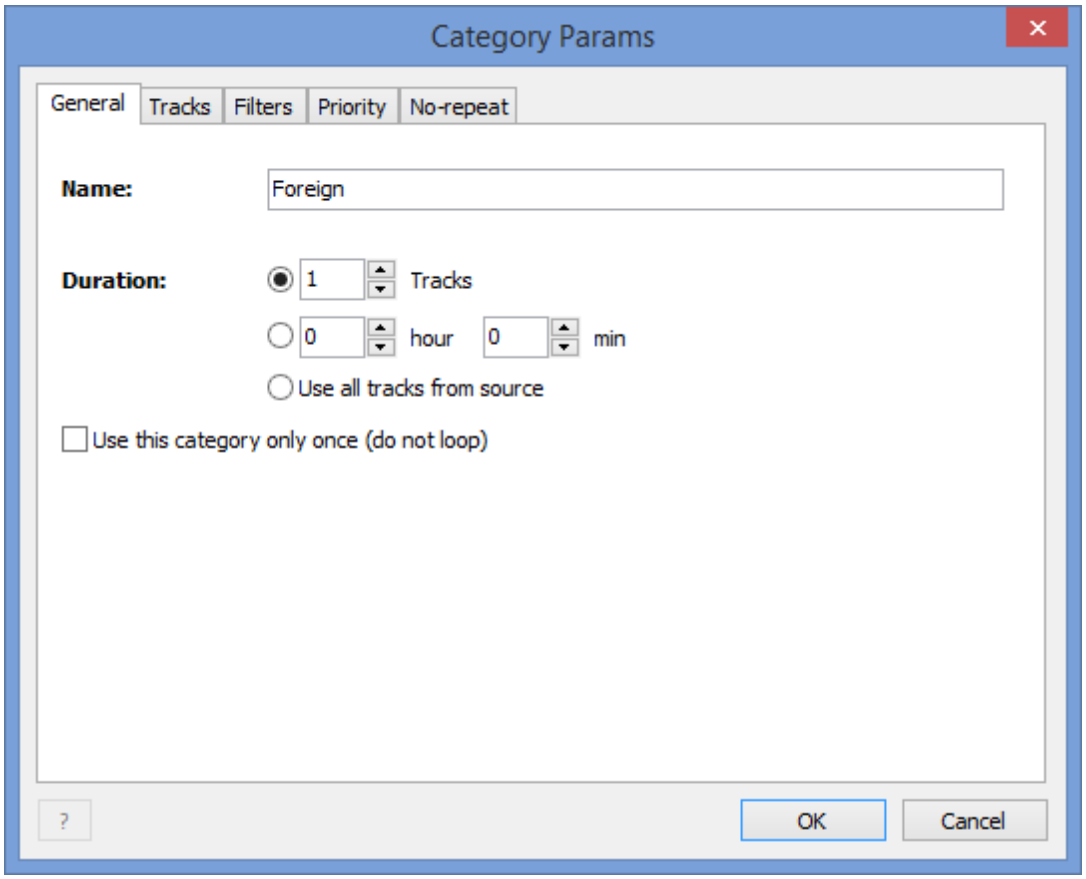

On the "**General**" tab, enter the **name** of the category (it will be shown on the list under this name – for instance, "Foreign"), its duration (1 track in the example above). For jingles, station-related information inserts and non-music tracks, we recommend enabling the "Ignore 'Do not repeat artist/track' options" option.

On the "**Tracks**" tab, select the source of tracks for this category. This can be a playlist, a folder, a music database or a standalone track.
You can use special tags in file names that the program will replace with corresponding values:

?yyyy	current year (4 digits)
?mm	month (2 digits)
?dd	day (2 digits)
?hh	hour (2 digits)
?nn	minute (2 digits)

On the "**Filters**" tab, you can set additional filters for tracks, such as year, time, rating and duration.

The "**Priorities**" tab lets you configure extended track selection rules. Priority represents the odds of a track being added to the playlist. Priority-based track selection is based on the number of playbacks, rating and the date of the latest playback. For instance, a track that hasn't been played for a while or a track with a higher rating has a better chance of being added to the playlist. This chance can be lowered

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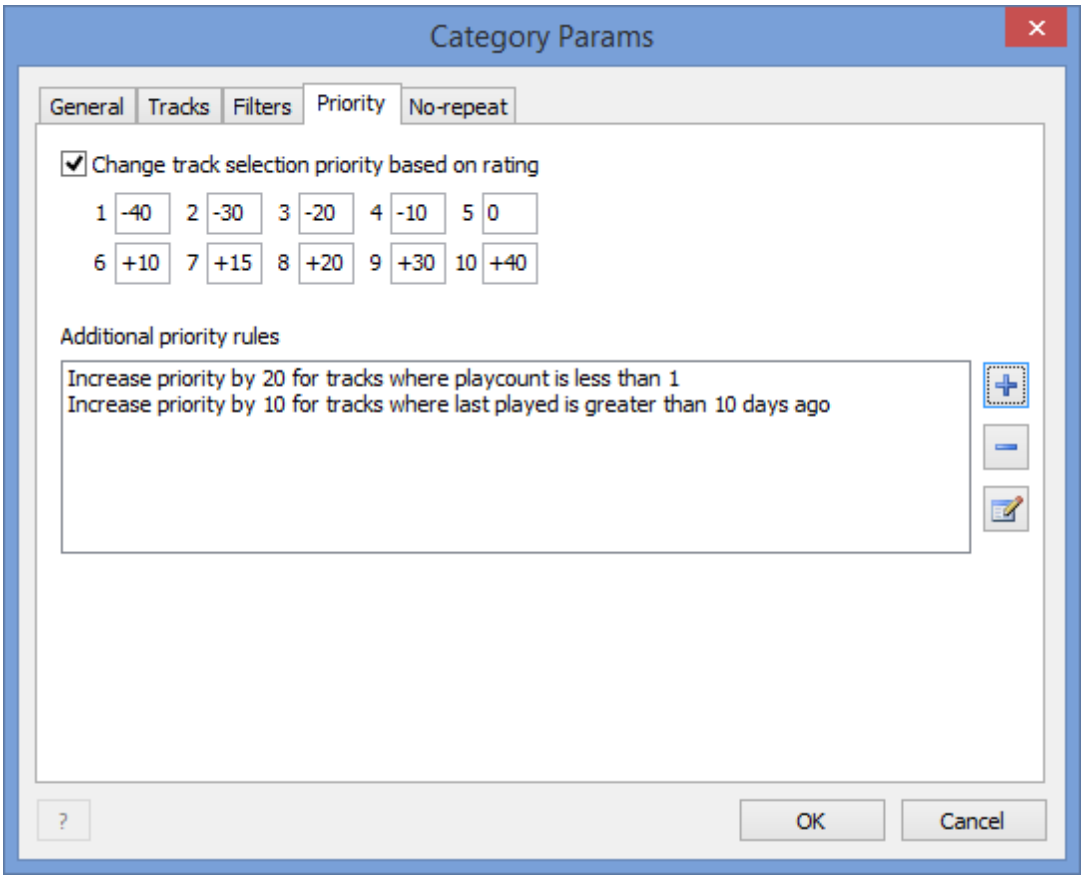
for unpopular tracks.


Category Params
General
Tracks
Filters
Priority
No-repeat
Change track selection priority based on rating
1 -40 2 -30 3 -20 4 -10 5 0
6 +10 7 +15 8 +20 9 +30 10 +40
Additional priority rules
Increase priority by 20 for tracks where playcount is less than 1
Increase priority by 10 for tracks where last played is greater than 10 days ago
?
OK
Cancel

You can use the **MIN**, **MAX**, and **AVG** (minimum, maximum and average respectively) values for the "playcount" rule. For example, you can set a higher priority for tracks whose number of playbacks is fewer than AVG (average).

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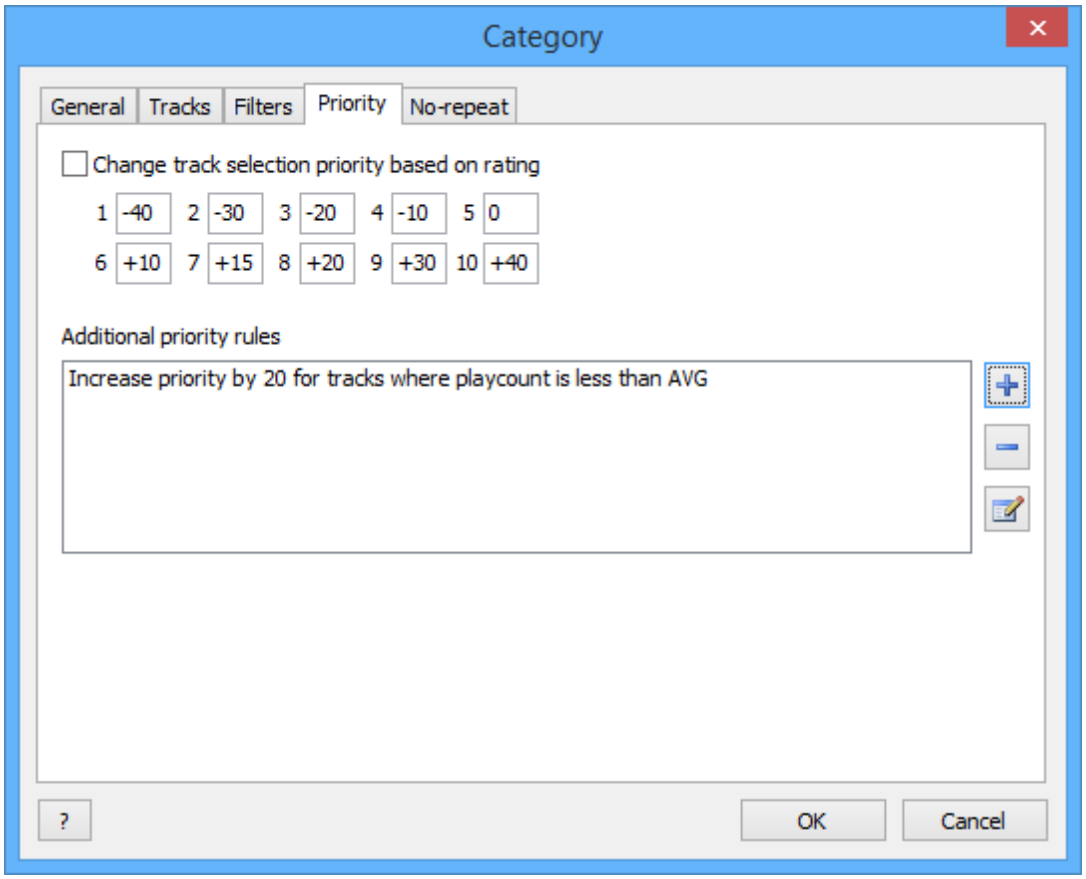

Track priority is calculated automatically and is based on the set rules. Each track has a base priority of 50, which corresponds to a "regular" chance of being put on the playlist. Values under 50 lower this chance, and values over 50 increase it. Priority values range from 0 to 100. 0 translates into a very low chance of making it to the playlist, while a value of 100 makes a file 3-4 times more likely to appear there (compared with the base priority of 50).

The "**No-repeat**" tab can be used for redefining the global non-repeat settings for an artist, track, album, and track name.

4.4 Segue Editor and Track Tool

4.4.1 Segue Editor

Segue Editor is called from the playlist: right-click a track which crossfade parameters you want to edit, and select **Segue Editor** (to edit 2 tracks) or **Segue Editor 3** (to edit 3 tracks).

A window opens:

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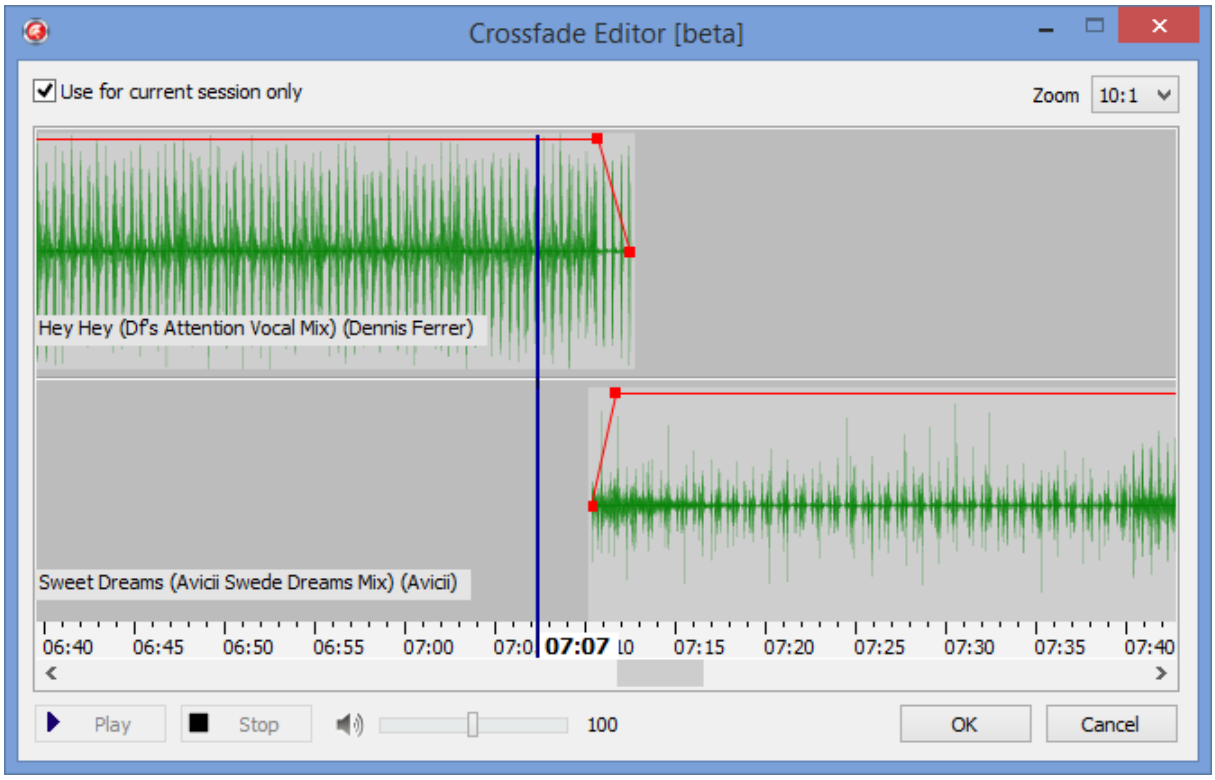
Crossfade Editor [beta]
Use for current session only
Zoom 10:1
Hey Hey (Df's Attention Vocal Mix) (Dennis Ferrer)
Sweet Dreams (Avicii Swede Dreams Mix) (Avicii)
06:40 06:45 06:50 06:55 07:00 07:0 07:07 10 07:15 07:20 07:25 07:30 07:35 07:40
Play
Stop
100
OK
Cancel

Example: Segue Editor for 2 tracks

Red line shows track volume level. Use mouse to move tracks and square points.

Save for current playlist only option controls how parameters are saved:
On: parameters will be saved for the current playlist only and will be lost when you close RadioBOSS
Off: parameters will be saved in the track's special tag and will be preserved for the future use.

4.4.2 Track Tool

Track Tool used to set individual track parameters: start, end, intro, outro and others.
To start the Track Tool, right-click a track in the playlist and select **Track Tool**

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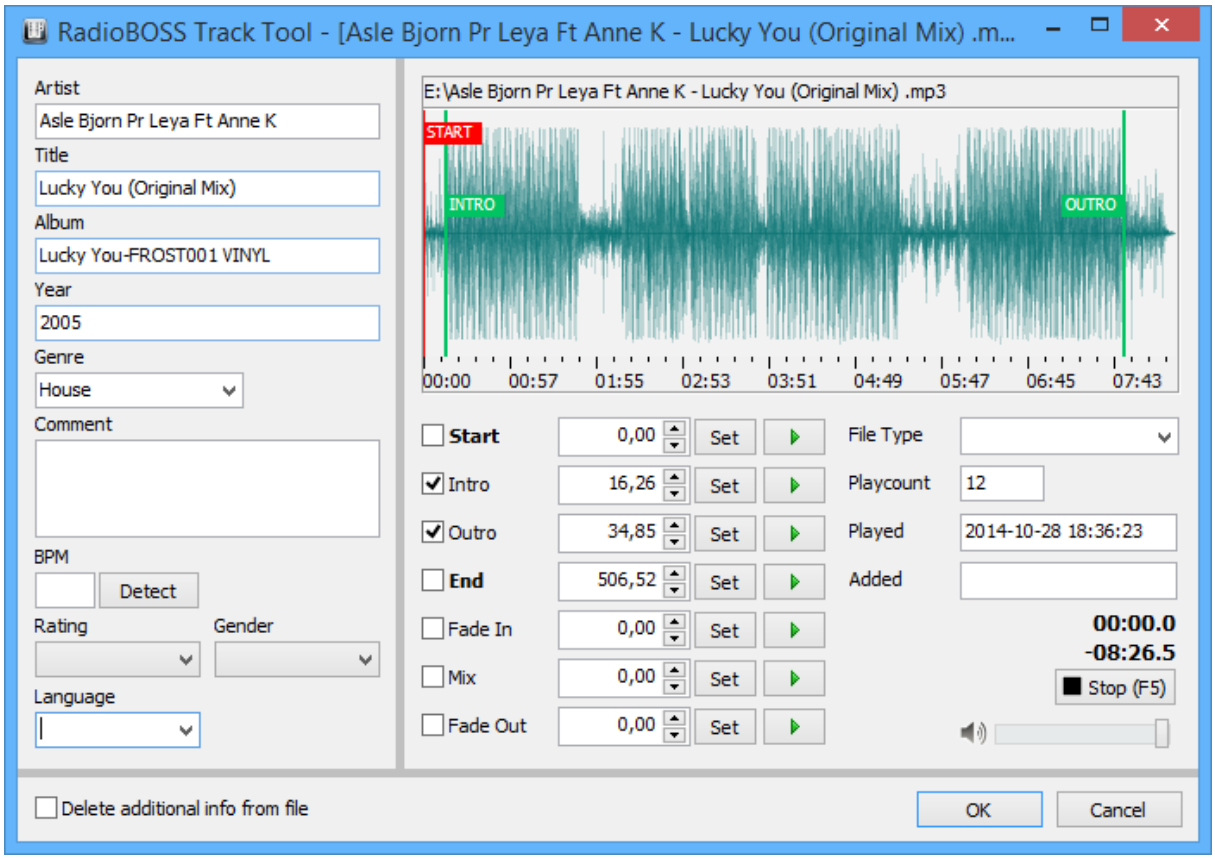

Start - sets the beginning of a track. The playback will start from that point.
End - end of the track.

Intro, **Outro** - intro and outro portions of the track. This is used in Voice Tracking.

Fade In, **Mix**, **Fade Out** - set the individual crossfading parameters.

To show/hide **Tag Editor** click the dark gray bar on the left.

To stop the playback, press the space bar. You can zoom in and out using the mouse wheel while the Ctrl key is pressed
and held. The zoom level can also be changed from the context menu that
appears after right-clicking on the graph.

4.5 Using the microphone

RadioBOSS lets you use a microphone any time during audio playback.

Note: If you have a hardware mixer board, you probably don't need the software MIC feature, as you can connect the microphone directly to the mixer.

How to use the microphone

First of all, make sure that a proper device is selected for the MIC button: microphone settings.

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Click the

button in the bottom-right corner.

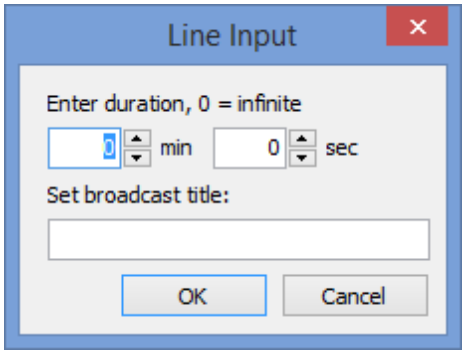
In the settings, select one of the two modes of MIC button operation:
- On/Off: The microphone works as long as the button is pressed. (To turn the microphone off, click the button again.)
- Push-To-Talk: The microphone works as long as you keep the button pressed down.

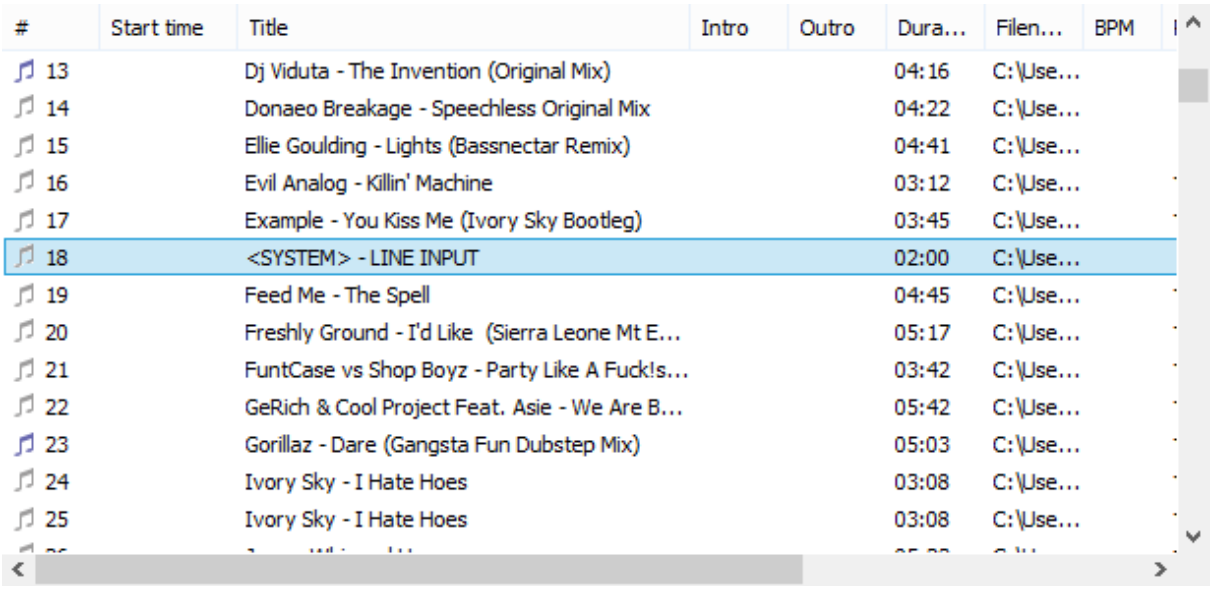
4.6 Working with a linear input

RadioBOSS lets you add a line input to a playlist. Line input settings can be configured via **Options** on the Input tab.

Line input is useful for retransmitting a signal received via the sound card's input (e.g. a satellite feed).

To use the line input, select **Playlist** -> **Add LINE.IN** in the top menu bar.
A window will open, where you can set the duration (that is, for how long you want the Line.In to be played). Optionally you can enter a broadcast title.




Start time Title Intro Outro Dura... Filen... BPM
13 Dj Viduta - The Invention (Original Mix) 04:16 C:\Use...
14 Donaeo Breakage - Speechless Original Mix 04:22 C:\Use...
15 Ellie Goulding - Lights (Bassnectar Remix) 04:41 C:\Use...
16 Evil Analog - Killin' Machine 03:12 C:\Use...
17 Example - You Kiss Me (Ivory Sky Bootleg) 03:45 C:\Use...
18 <SYSTEM> - LINE INPUT 02:00 C:\Use...
19 Feed Me - The Spell 04:45 C:\Use...
20 Freshly Ground - I'd Like (Sierra Leone Mt E... 05:17 C:\Use...
21 FuntCase vs Shop Boyz - Party Like A Fuck!s... 03:42 C:\Use...
22 GeRich & Cool Project Feat. Asie - We Are B... 05:42 C:\Use...
23 Gorillaz - Dare (Gangsta Fun Dubstep Mix) 05:03 C:\Use...
24 Ivory Sky - I Hate Hoes 03:08 C:\Use...
25 Ivory Sky - I Hate Hoes 03:08 C:\Use...

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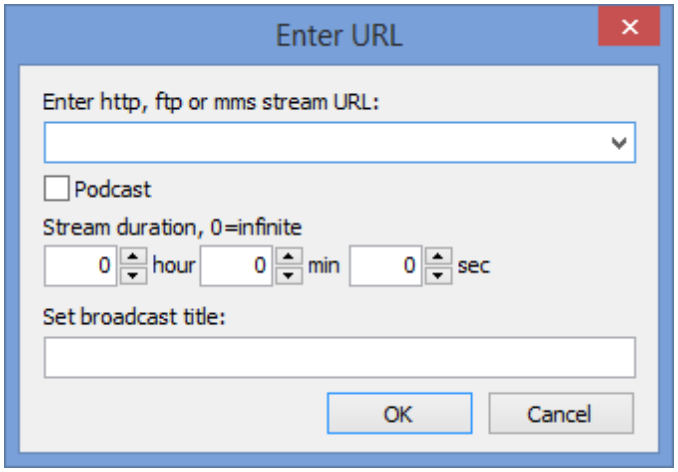
"Line.In" plays just like an ordinary file in the playlist. Crossfading and most other effects are applied to it as well.

4.7 Stream and podcast playback

To insert a stream or podcast into the playlist, in the menu click **Playlist** -> **Add URL...**

A window will open where you can enter the stream URL and set the duration:



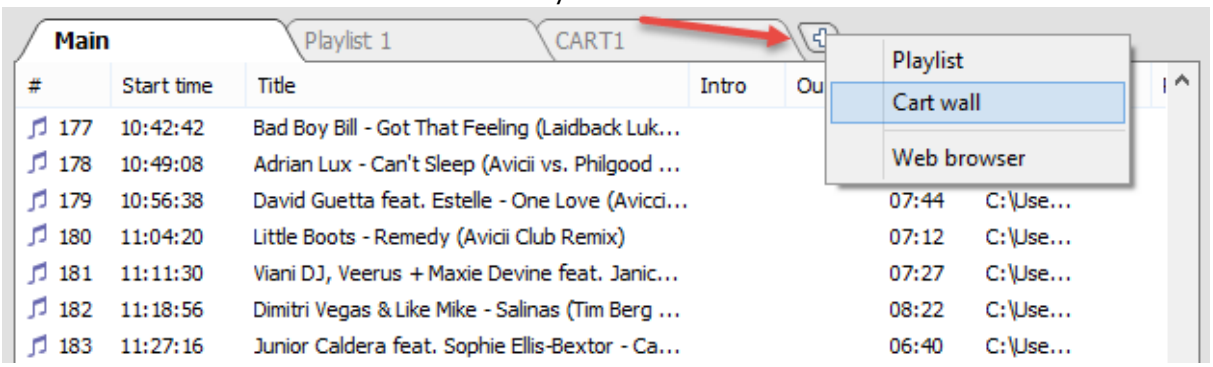
Check the **Podcast** checkbox if a URL points to a podcast: in this case, RadioBOSS will select the newest stream from the feed and play it.

When the Stream duration is set to 0 (zero), RadioBOSS will play a stream until its end (or until something else is started in the playlist). If the duration is non-zero, RadioBOSS will play a stream for a specified amount of time, restarting the stream in case of any errors, e.g.. connection failure.

4.8 Cart wall

Cart wall is used for instant on-demand playback of various audio files.

To add cart wall: click the "+" button in the Playlist section and select "**Cart wall**":


Main
Playlist 1
CART1
Playlist
Cart wall
Web browser
Start time Title Intro
177 10:42:42 Bad Boy Bill - Got That Feeling (Laidback Luk...
178 10:49:08 Adrian Lux - Can't Sleep (Avicii vs. Philgood ...
179 10:56:38 David Guetta feat. Estelle - One Love (Avicci... 07:44 C:\Use...
180 11:04:20 Little Boots - Remedy (Avicii Club Remix) 07:12 C:\Use...
181 11:11:30 Viani DJ, Veerus + Maxie Devine feat. Janic... 07:27 C:\Use...
182 11:18:56 Dimitri Vegas & Like Mike - Salinas (Tim Berg ... 08:22 C:\Use...
183 11:27:16 Junior Caldera feat. Sophie Ellis-Bextor - Ca... 06:40 C:\Use...

The 5x5 grid is created:

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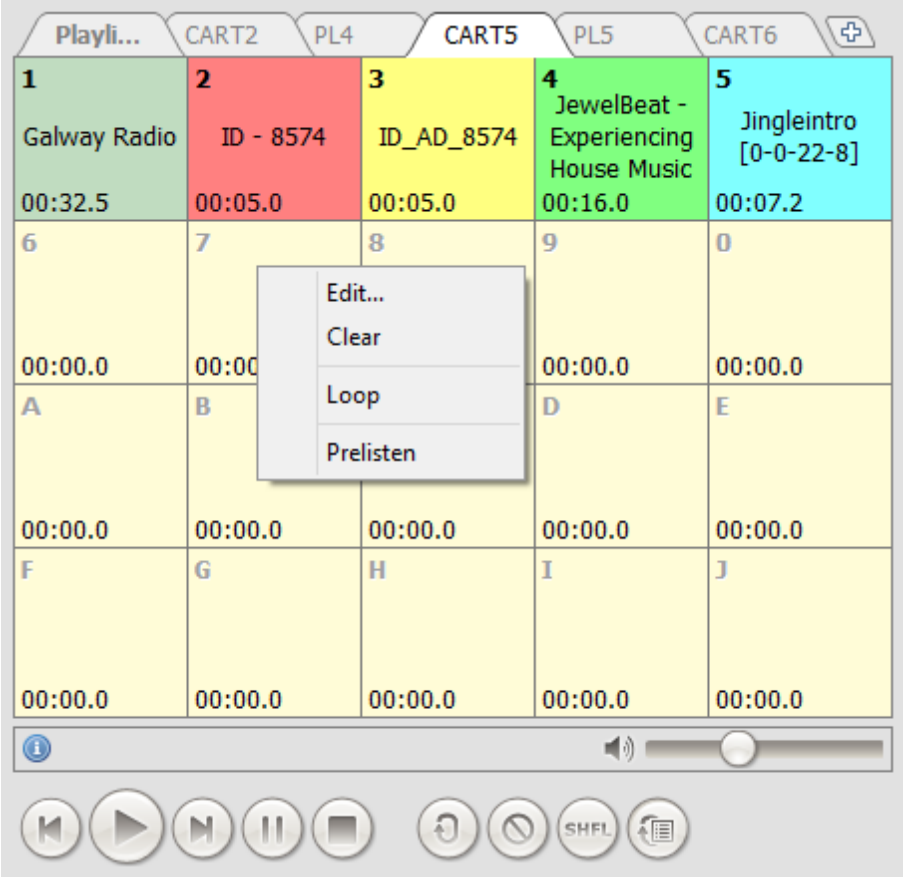
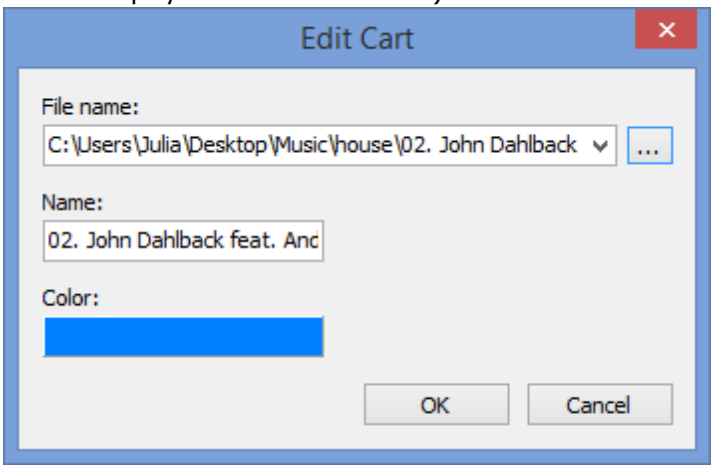


To assign tracks: right-click the cell and click "Edit...".
In the window that appears, select the file you want to play as well as its color and display name (the name is displayed in the center of cell). Click OK.



To fill cells, you can drag and drop tracks from Explorer. You can also drag and drop tracks between cells.
After the setup is done, you can play tracks when you need: simply click on the corresponding cell. In the bottom-left corner the remaining playback time will be shown. To stop playback, click the cell again. Right-click on a cell to edit it or enable loop.

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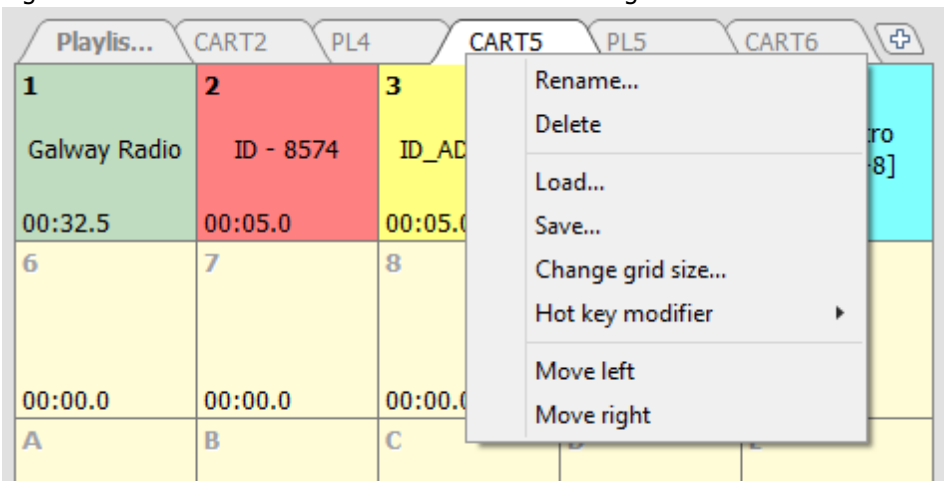
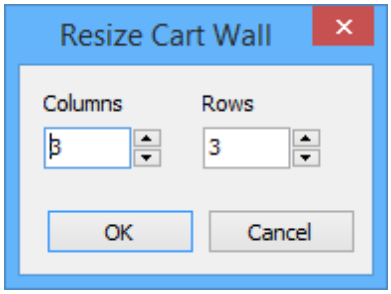
Carts may be played on another audio device: playback settings.

Right-click a cart wall tab to save or load the cart wall grid:



You can now change the size of the cart-machine's grid. To do that, right-click on the tab and select "Change grid size..." command from the menu. You will see a new window for entering the necessary number of rows and columns.



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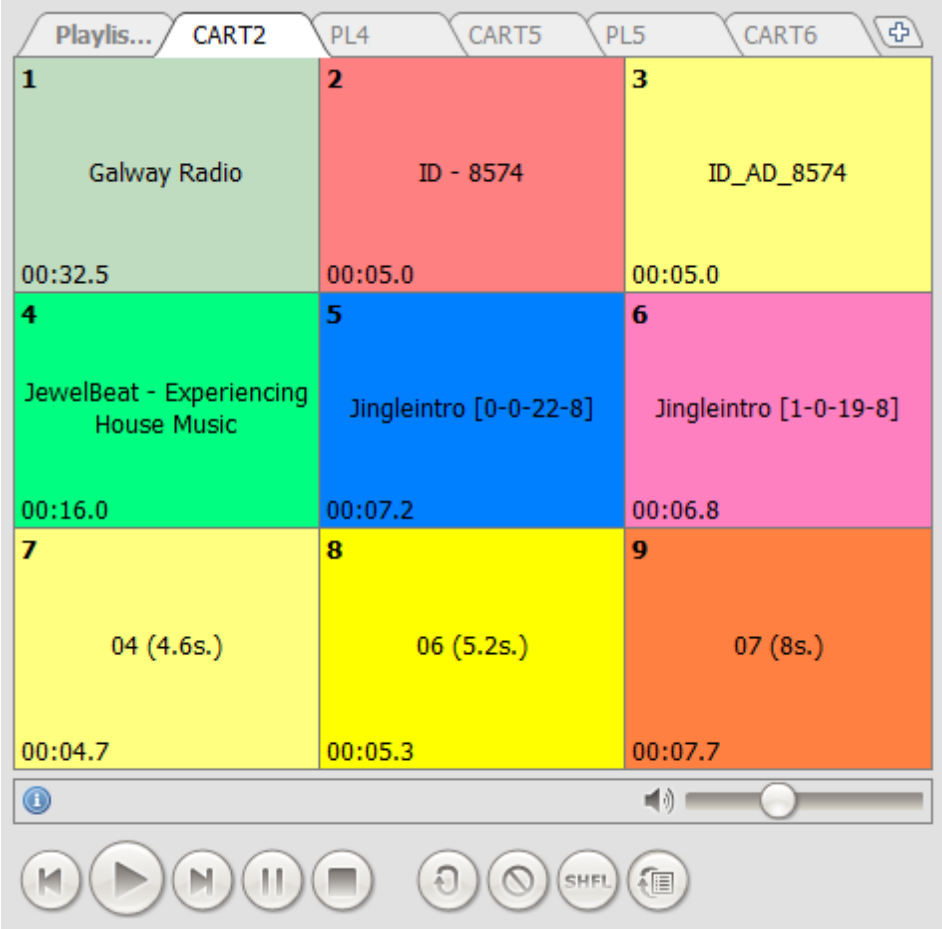

If you reduce the number of cells, the ones that do not fit into the resized grid will be removed.

You can assign a hot key for the cart wall as follows: Right-click the cart wall tab, select "Hot key modifier" in the context menu, and set a desired option.

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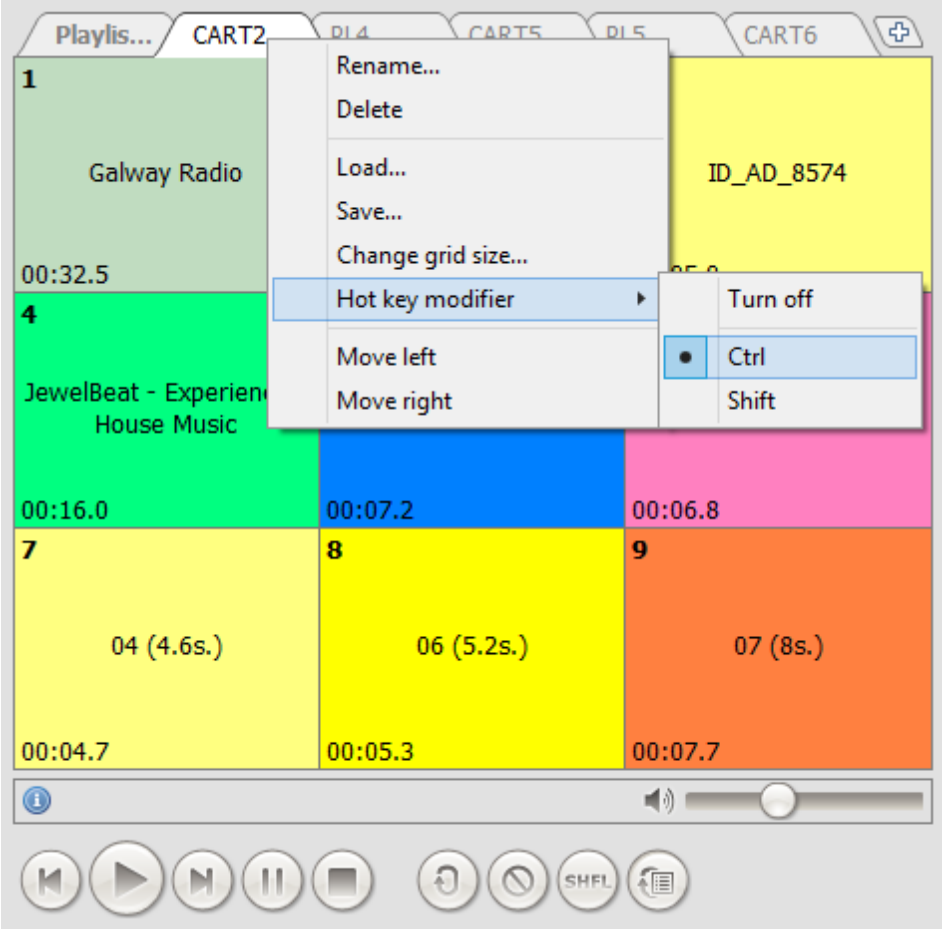
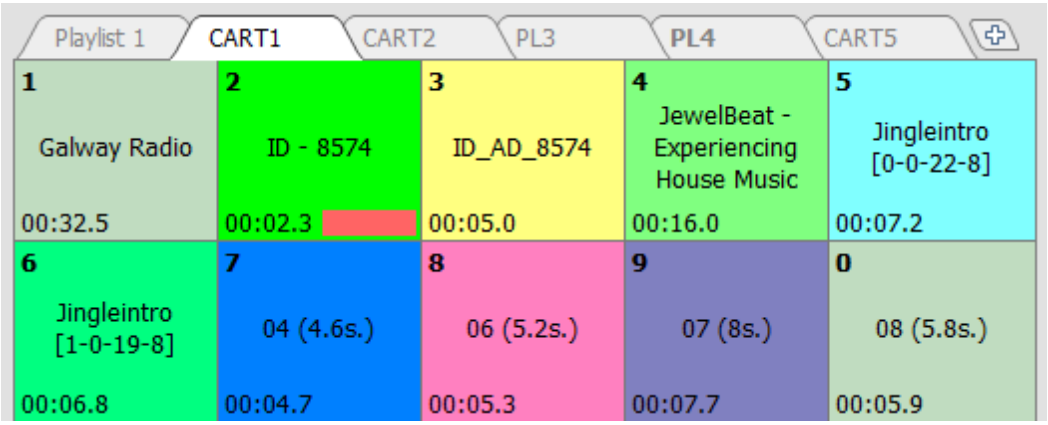


Suppose you have assigned the Ctrl key. To play a track, press (and release) Ctrl, and then press the key corresponding to the necessary track. For example, if you want to listen to a track under the digit 2, press Ctrl, and then press the "2" key. If the track is under the letter M, press Ctrl, and then press the "M" key.



To stop the playback, press the same keys again. The same works for the Shift key.

You can create a few carts on the cart wall. Pressing Ctrl+2 will create two carts, and pressing Ctrl+3 will create three ones.

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More information:
Playback

4.9 Using different types of files

RadioBOSS allows you to set up file types for particular types of tracks. For each file type, you can specify the name, identifier, color, crossfade parameters, and amplifying level for playback (-20 to +20 dB). Files which doesn't belong to any file type are treated as "Music".

An **identifier** is a word or a sequence of characters that assigns a file to a particular group. You can use Track Tool to assign a track for a particular file type. Another option is to include identifier in the tag information or filename: RadioBOSS looks for an identifier in the tag area (artist/title) or the filename if a file has no tags. It's not recommended to use short identifiers which can appear as a part of regular track's titles - for instance, your identifier is "**id**" which can be found in the track called "The Beatles - Everybody's Got Something to H**id**e". The solution would be to use "id " (add a space before and/or after the identifier) or choose another identifier.

If an identifier is found in the tags or file type has been assigned in Track Tool, the file is marked with the corresponding **color** in the playlist. All playback and crossfade parameters set for this file type are applied.

To create a file type for network streams use the **://** identifier (or any part of the address, for example, domain name). A file type for automatic time announcement should have **saytime** identifier.

For example: The first group is named "Commercial". Its identifier is "Commercial", the color is set to red, and the amplifying level is set to +5dB. In this case, all tracks containing the identifier "Commercial"

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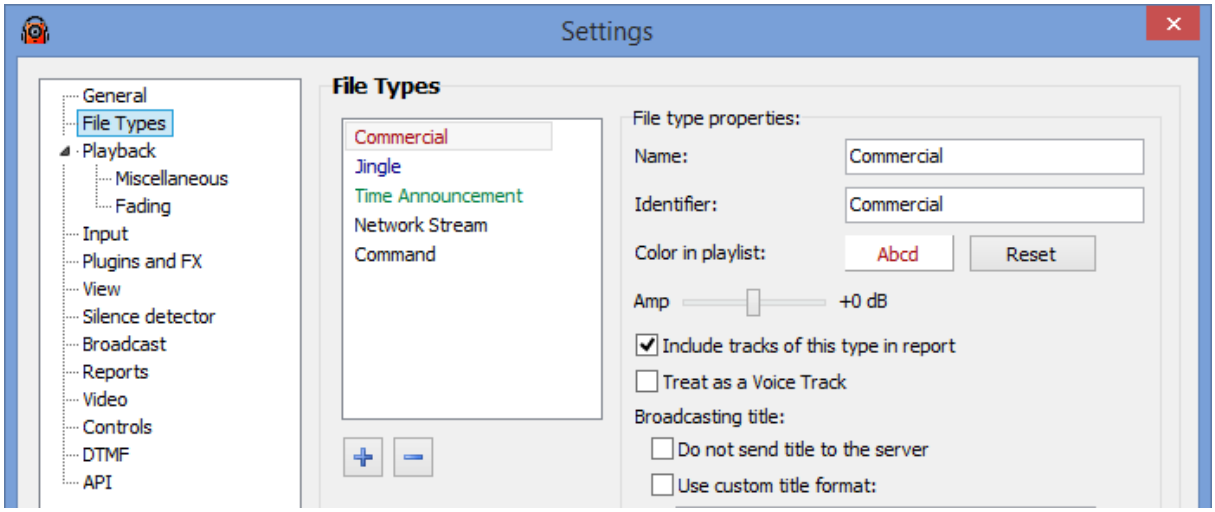
in tags (title/artist) or filename will be displayed red in the playlist and played louder than other tracks. The file will be mixed according to the crossfade parameters configured for the "Commercial" group in the Crossfades window.

File type options:

Name	File type name
Identifier	File type identifier
Color in playlist	Coloring of the tracks of this type in the playlist. Click the box to change the colors
Amp	Change the level to amplify or lower the level when a track of this type is played
Include tracks of this type in report	Controls whether tracks of this type should be included in the report
Treat as a Voicetrack	If checked, tracks of this type will be treated as Voice Tracks
Use custom title format	Specify a custom broadcasting title format for this file type
Use bed for playback	A bed can be set, which will play in the background



To set up a new file type, follow these steps:

1. On the top menu bar, select **Settings** > **Options...**

2. Click **File Types**.

3. Enter the name of a new file type into the **Name** field.

4. Enter the identifier of a file type into the **Identifier** field.

5. Select background and font colors.

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6. Move the **Amp** slider to set the amplification level if needed.

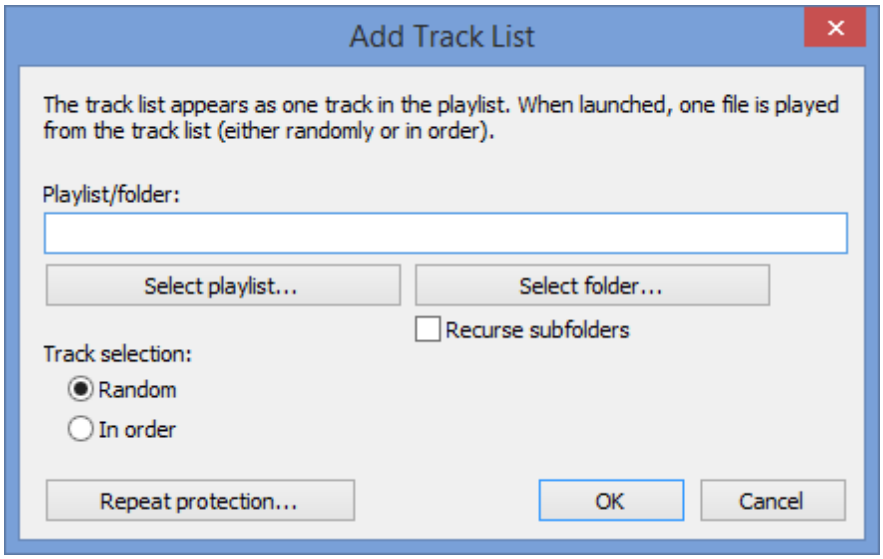
7. Click **OK**.

Related topic:
RadioBOSS. Quick start.

4.10 Using Track list

RadioBOSS allows users to add a track list to the playlist.

Track List appears as one track in the playlist. When launched, one file is played from the list, selected either randomly or in order. This is an easy way to create random playlists.



To add a track list, follow the steps below:

1. On the top menu bar select **Playlist** > **Add track list...**
Now you can select a source of the tracks: playlist or a folder with audio files.
In case of a folder, you can also check the "Recurse subfolders" to include tracks that are in subfolders.

2. To select a source of the tracks, click **Select playlist...** (or **Select folder...**).

3. To choose a track selection method, set one of the options:
Random - tracks will be selected in Random order. RadioBOSS will try to not repeat tracks unless all the tracks are played from the source.
In order - tracks will be selected one by one in order.

Click the **Repeat Protection** button to enable advanced repeat protection options for Track List.

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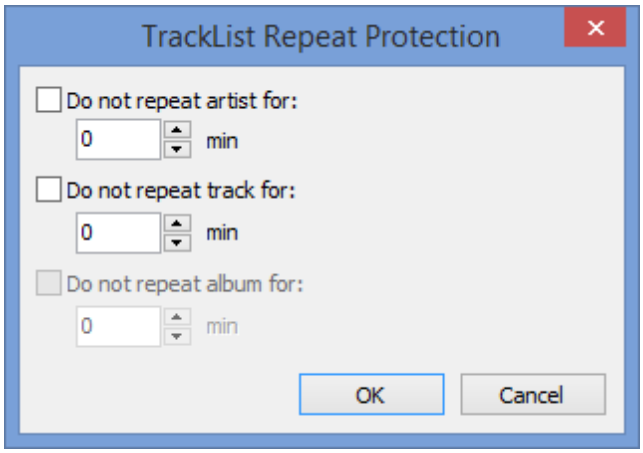
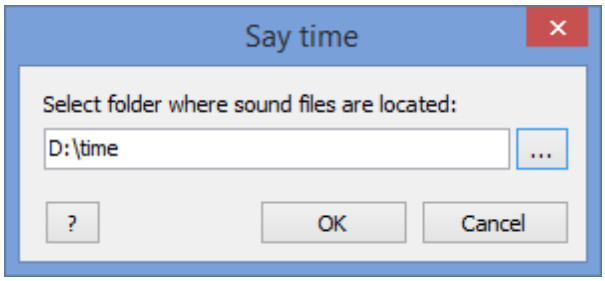


More information:
Generating a playlist

4.11 Automatic time announcements

RadioBOSS can automatically "say" the current time.

To add a time announcement, use the menu: Playlist -> Add time announcement.



A window will open, prompting you to select a folder with voice files. The folder should contain 24 sound files for hours and 60 files for minutes.

File naming convention:
- Hour files. Each hour file must have the letter "h" and a two-digit number in the file name. For example, the file "hr_05.mp3" should say "it's 5"; this file will be followed by a minute file. For exact hours, hour files with the letter "o" in the name are used. For example, the file hr_05o.mp3 should say "it's 5 o'clock." (Minutes are not used for exact hours.)
- Minute files. Each minute file must have the letter "m" and a two-digit number in the file name. For example, the file "m_56.mp3" should say "fifty-six."

You can download sample voice files from our website: http://www.djsoft.net/enu/download.htm

You can use Scheduler to start announcements: Click the Wizard button, select "Automatic announcement," and follow the instructions.

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4.12 Creating a music library

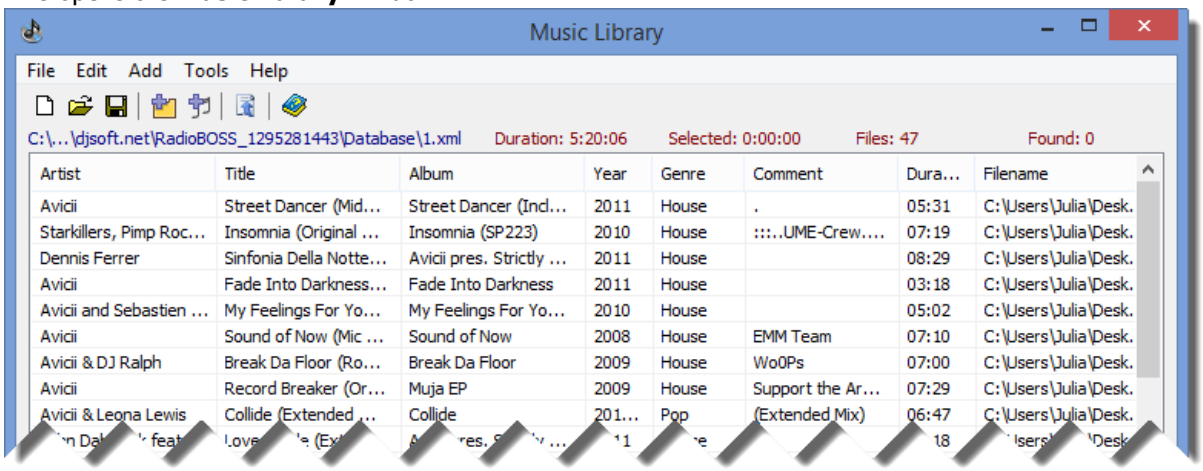
The library is used for quick search and to help generate a new playlist in the Playlist Generator.

The library offers tools to help manage a database. For example: The Verify command scans the database for any entries or file(s) that have been deleted from the hard disk, and removes the invalid entries automatically. With the built-in audio player you can preview tracks.

To create a music library, follow the steps below:

1. On the top menu bar click **Music library** > **Open Music Library**

This opens the **Music library** window.


Music Library
File Edit Add Tools Help
C:\...\djsoft.net\RadioBOSS_1295281443\Database\1.xml Duration: 5:20:06 Selected: 0:00:00 Files: 47 Found: 0
Artist Title Album Year Genre Comment Dura... Filename
Avicii Street Dancer (Mid... Street Dancer (Incl... 2011 House . 05:31 C:\Users\Julia\Desk.
Starkillers, Pimp Roc... Insomnia (Original ... Insomnia (SP223) 2010 House :::..UME-Crew.... 07:19 C:\Users\Julia\Desk.
Dennis Ferrer Sinfonia Della Notte... Avicii pres. Strictly ... 2011 House 08:29 C:\Users\Julia\Desk.
Avicii Fade Into Darkness... Fade Into Darkness 2011 House 03:18 C:\Users\Julia\Desk.
Avicii and Sebastien ... My Feelings For Yo... My Feelings For Yo... 2010 House 05:02 C:\Users\Julia\Desk.
Avicii Sound of Now (Mic ... Sound of Now 2008 House EMM Team 07:10 C:\Users\Julia\Desk.
Avicii & DJ Ralph Break Da Floor (Ro... Break Da Floor 2009 House Wo0Ps 07:00 C:\Users\Julia\Desk.
Avicii Record Breaker (Or... Muja EP 2009 House Support the Ar... 07:29 C:\Users\Julia\Desk.
Avicii & Leona Lewis Collide (Extended ... Collide 201... Pop (Extended Mix) 06:47 C:\Users\Julia\Desk.

Now it is necessary to add tracks. There are two ways to do it. The user can either add single files or music folders.

2. To add a folder, select **Add** > **Add folder...**

The dialog appears, which lets the user select the folder.

3. Click **Select** to add files from the folder to the library.

4. To save the changes, click the **Save** button.

You can find more commands in the **Tools** menu.
Check music tracks... – checks audio files for damages, and then shows a list of bad tracks.
Scan tracks and remove silence... – scans tracks for silence, and adds the beginning and end marks. You can define the silence removal threshold via RadioBOSS settings.
Scan BPM... – scans tracks and adds the BPM tag.
Schedule automatic library update... – creates a task in RadioBOSS to scan the specified folders and add audio files to the database.

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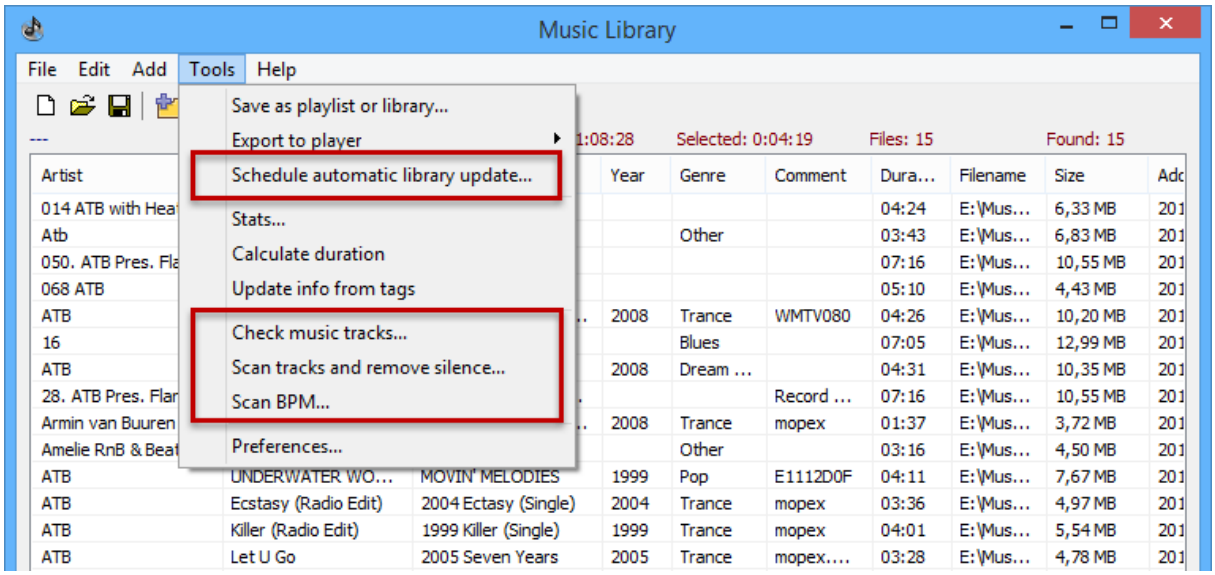

Related topics:
Playlist Generator PRO
Quick search

4.13 Crossfading

Crossfade allows you to define the mix (overlap) point, and fade in/out parameters for music and other files. To open this window, select **Settings** –> **Crossfades** in the menu.

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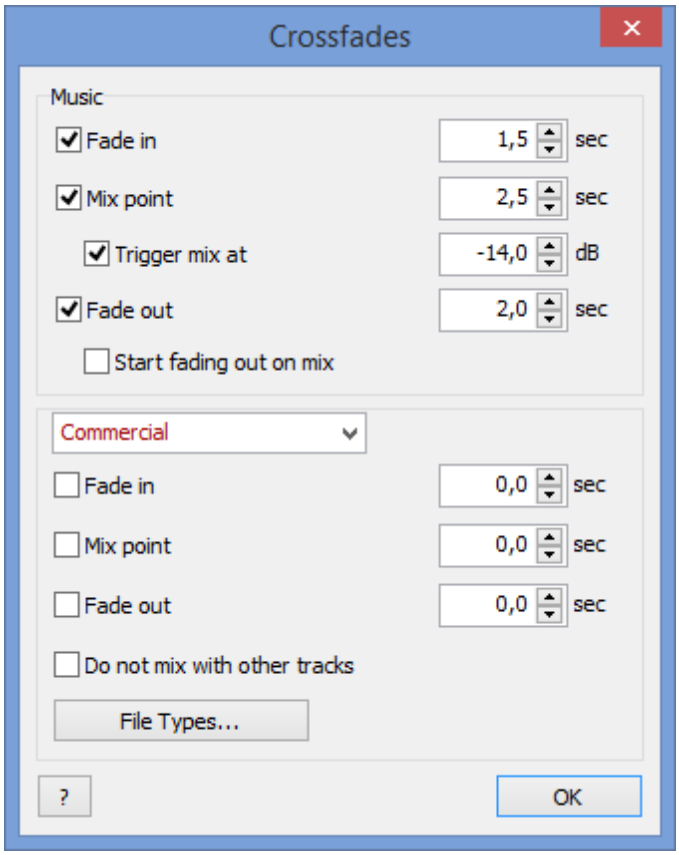

Controls and options:

Fade in	Time interval in the beginning of a track for the volume to go up. When a track is started, the volume will go linearly from 0 to 100% during that time.
Mix point	The moment before the end of a track when the next track starts playing, overlapping with the current track.
Trigger mix at	The "Trigger mix at" setting is based on a sound level (default setting is –14dB). The "Mix point" option must be turned on too. If the "Trigger mix at" option is turned on, the "Mix point" value (2.5 seconds by default) controls the minimum overlap duration.
Fade out	Time interval in the end of a track for the volume to go down.
Start fading out on mix	The fade out will be started together with Mix. If the "Fade out" option is turned on, the corresponding value defines the fade out duration.
File type selector	Selects the file type for editing the crossfade settings.

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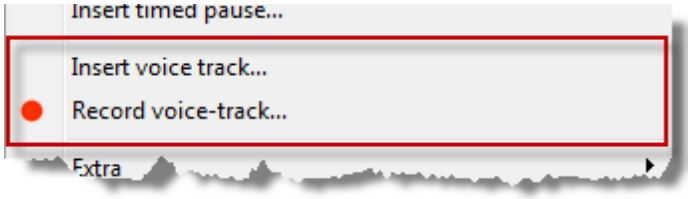
File types...	Opens the File Types dialog to configure file types.

More information:
Using different types of files

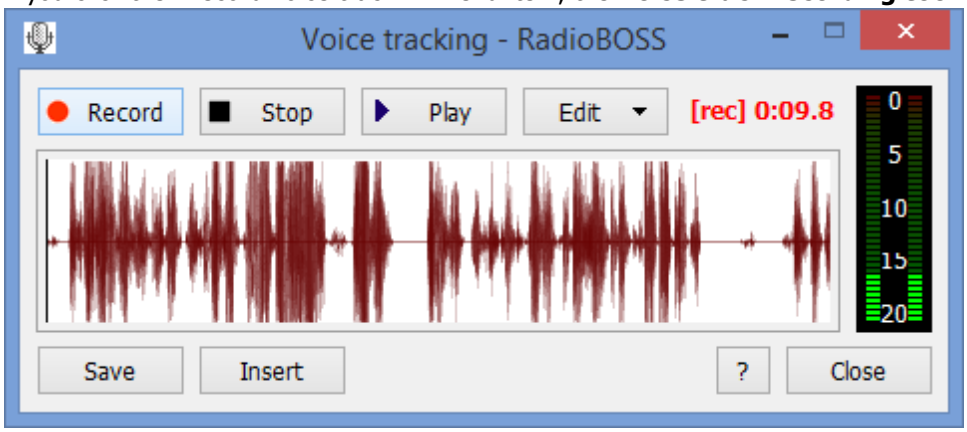
4.14 Voice Tracking

RadioBOSS supports voice tracking, namely recording and playback.

To record a voice track and insert it into a playlist, use the corresponding commands in the **Playlist** menu:



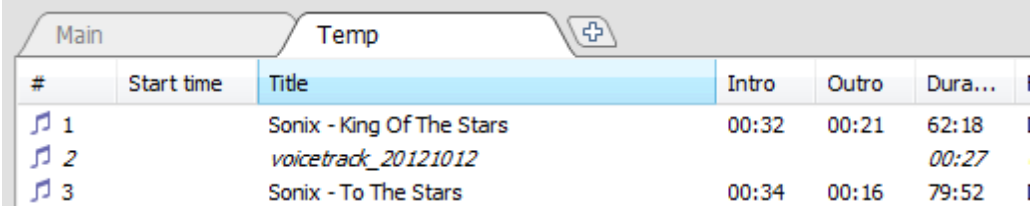
If you click the "Record voice track..." menu item, the **Voice track recording tool** will open:



The tool uses the same input device as set for the MIC button.

To start recording, click the **Record** button. Once finished, click **Stop**. To listen to the track recorded, click **Play**. The Pre-listen sound card is used for playback. To edit a voice track, use the **Edit** commands. To save a voice track, click the **Save** button. Save all voice tracks in the Voice Track folder (you can change its location via Settings -> General).

To insert a voice track into the playlist, click the **Insert voice track** menu item. All voice tracks appear in *italics* in the playlist.


Main
Temp
Start time Title Intro Outro Dura...
1 Sonix - King Of The Stars 00:32 00:21 62:18
2 voicetrack_20121012 00:27
3 Sonix - To The Stars 00:34 00:16 79:52

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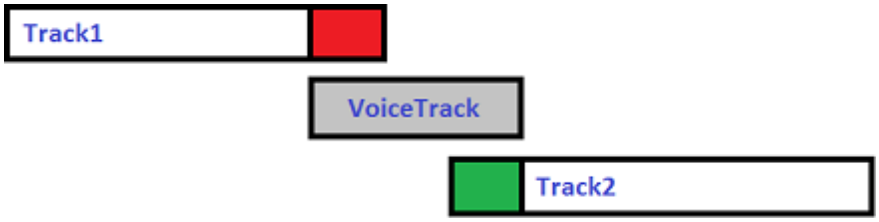
Voice tracks are played automatically in the intro/outro portions of the tracks. You can set the intro and outro for tracks using the Track Tool.

The picture below shows the general idea on how voice tracks are played:



Red is the Outro part of Track1, and **Green** is the Intro part of Track2. For short voice tracks (shorter than Intro + Outro), a voice track will be played closer to the end of the Intro of Track2.

Some voice track-related playback parameters can be configured via Settings -> Playback -> Fading.

A short note about what Intro and Outro are:
Intro is an opening instrumental part of the track, before the singer starts singing.
Outro is a conclusion of the track, usually an instrumental solo.

4.15 Report Generator

RadioBOSS has a tool to generate ready-to-print reports of what was played.

Note: the tool is currently under development.

To open report generator click **Tools** -> **Report Generator**

Report Generator:

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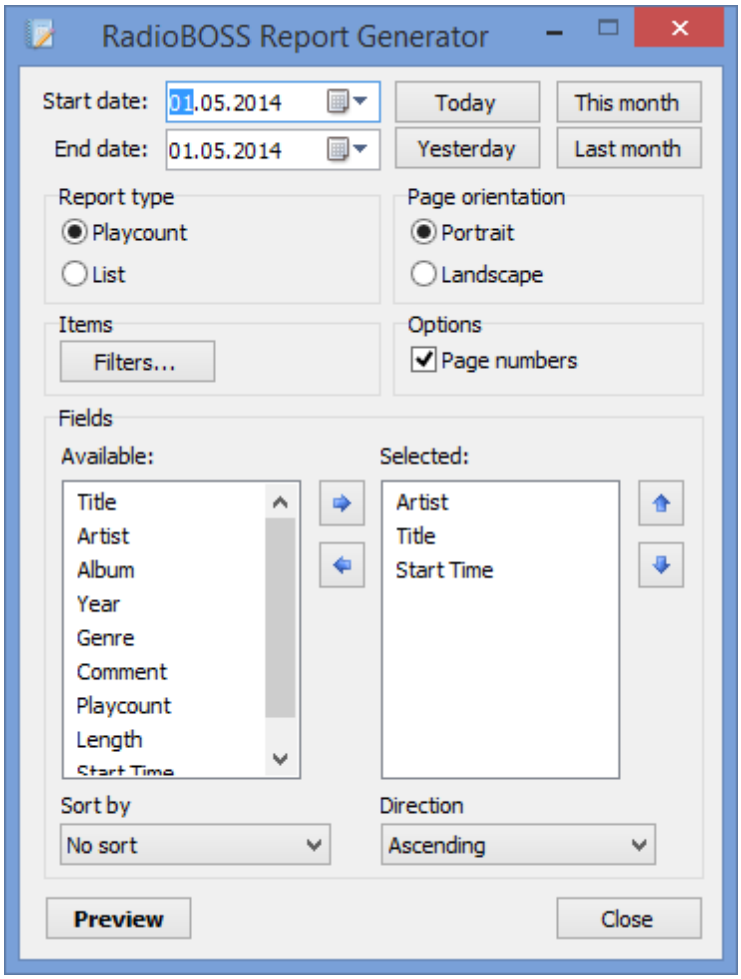

In this window you select report period (start and end dates), report type:
Playcount - each track will appear in report once but will show how many times it was played
List - will list all played tracks

Set the fields you want to see in report: move fields from Available to Selected list.

After all set, click the **Preview** button.
A window where you can print or save report will appear:

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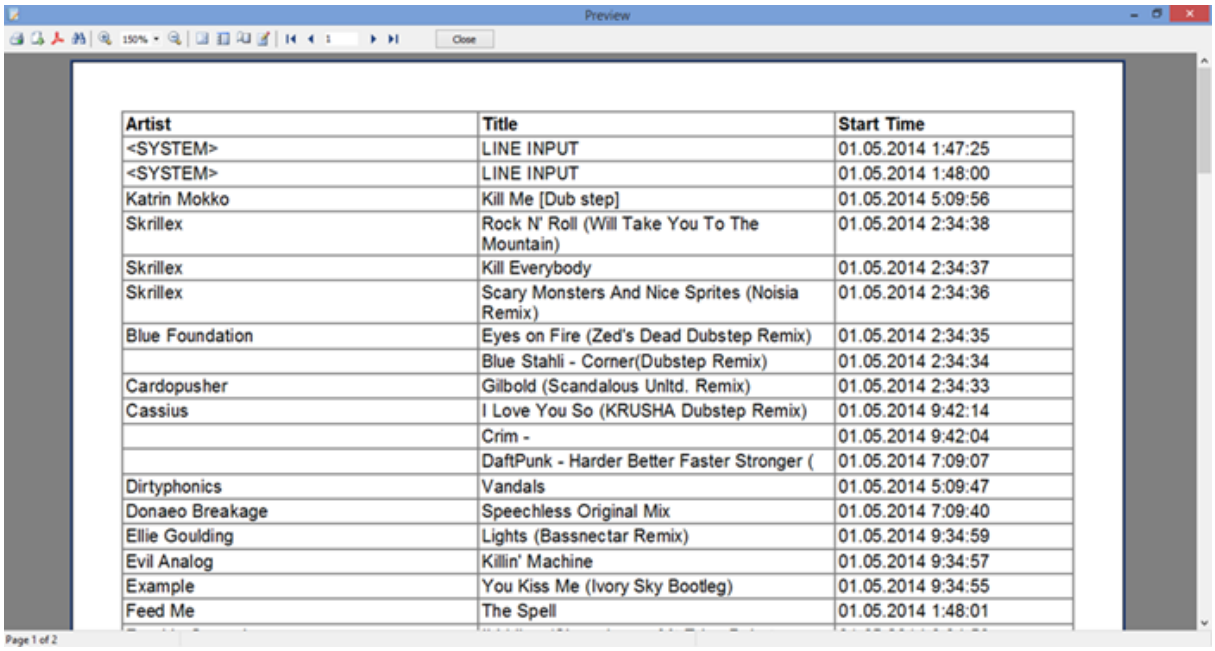
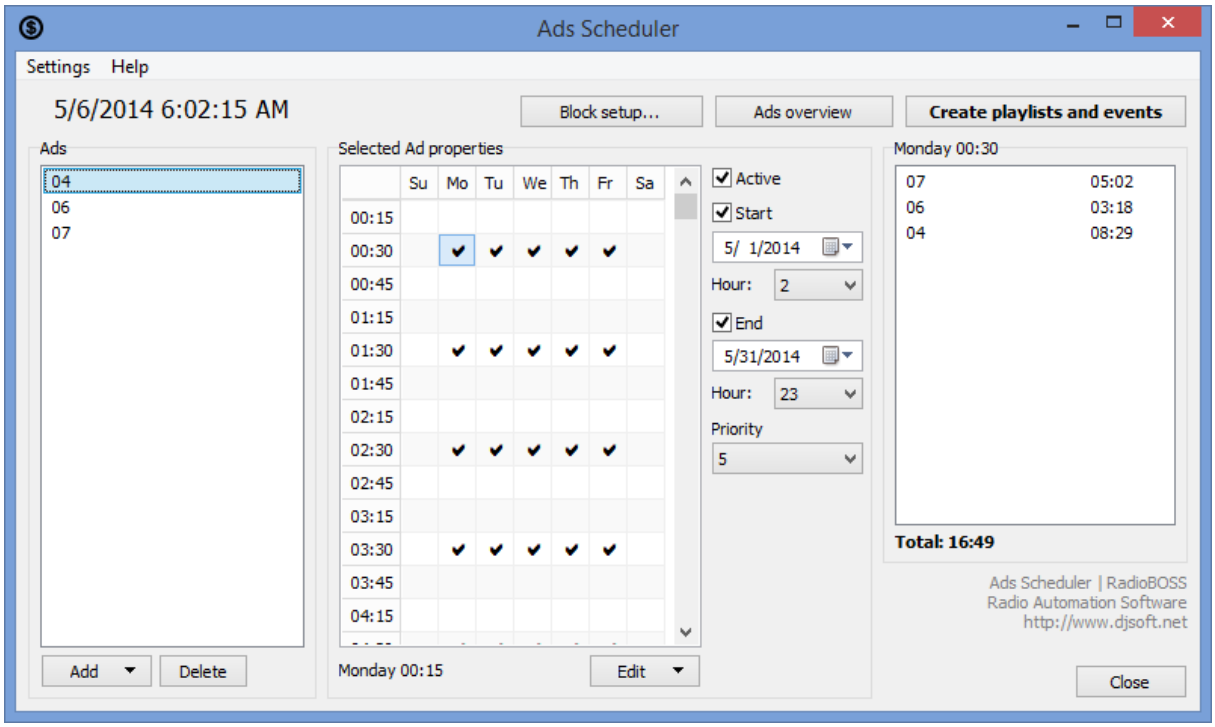


Artist	Title	Start Time
<SYSTEM>	LINE INPUT	01.05.2014 1:47:25
<SYSTEM>	LINE INPUT	01.05.2014 1:48:00
Katrin Mokko	Kill Me [Dub step]	01.05.2014 5:09:56
Skrillex	Rock N' Roll (Will Take You To The Mountain)	01.05.2014 2:34:38
Skrillex	Kill Everybody	01.05.2014 2:34:37
Skrillex	Scary Monsters And Nice Sprites (Noisia Remix)	01.05.2014 2:34:36
Blue Foundation	Eyes on Fire (Zed's Dead Dubstep Remix)	01.05.2014 2:34:35
	Blue Stahli - Corner(Dubstep Remix)	01.05.2014 2:34:34
Cardopusher	Gilbold (Scandalous Unltd. Remix)	01.05.2014 2:34:33
Cassius	I Love You So (KRUSHA Dubstep Remix)	01.05.2014 9:42:14
	Crim -	01.05.2014 9:42:04
	DaftPunk - Harder Better Faster Stronger (	01.05.2014 7:09:07
Dirtyphonics	Vandals	01.05.2014 5:09:47
Donaeo Breakage	Speechless Original Mix	01.05.2014 7:09:40
Ellie Goulding	Lights (Bassnectar Remix)	01.05.2014 9:34:59
Evil Analog	Killin' Machine	01.05.2014 9:34:57
Example	You Kiss Me (Ivory Sky Bootleg)	01.05.2014 9:34:55
Feed Me	The Spell	01.05.2014 1:48:01

4.16 Advertisement Scheduler

You can use Advertisement Scheduler to manage advertisements, that is, to automatically create and schedule advertisement blocks.

To launch it, click **Tools** -> **Ads Scheduler**



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How to use

First-time setup:
1) On the first launch, open the Settings window. (The application will prompt you to do that, just click Yes.)
2) Set the working folder for saving generated playlists and events.
3) On the **Ad blocks** tab, select the hours and minutes for placing ads. (You can change this setting later.)
4) Click OK.

Operation:
- In the main window, click the **Add** button to add tracks. The tracks will appear in the list.
- To add a track to a block, put a check mark in the corresponding grid cell by right-clicking or double-clicking it, or pressing the space bar.
- After filling the grid for each track, click the **Create playlists and events** button. Playlist files for each ad block and scheduler events to start those playlists at specified times will be created. Events can be automatically added to the RadioBOSS Scheduler.
- **Important!** For Start/End settings to work, you must schedule an automatic advertisement playlist and events update. Create an event to run every day (e.g. at night) with the command **adsupdate.** The **adsupdate** event has to be run every hour if you set the start and/or end hours for a track. Start and End dates and hours are **inclusive**.

The **color of ads** in the list indicates their status:
Red – the track was not found on the disk;
Gray – the track finished running on the specified date;
Blue – running the track has been planned for a future date;
Black – the track is inactive;
Light-gray – the track is disabled.

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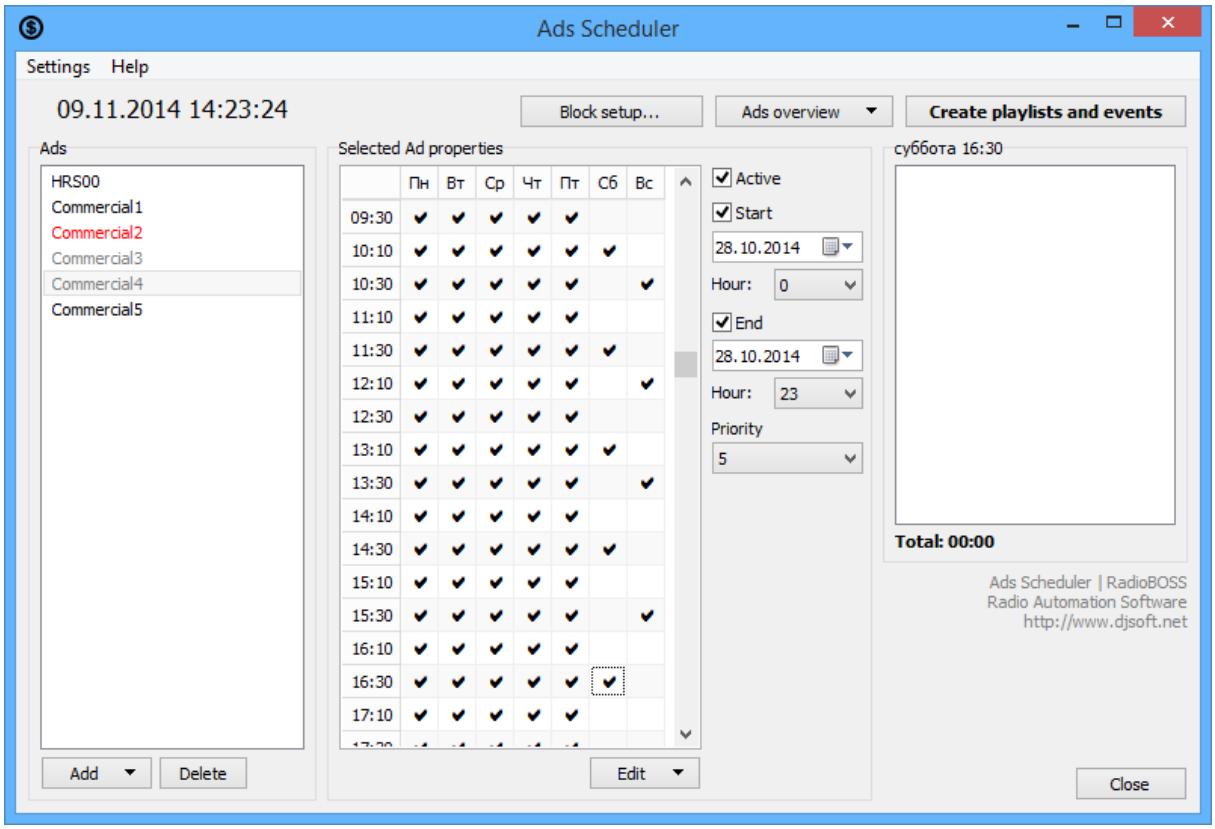

You can load, save, or insert grid presets. To do it, click the **Edit** button below the "Selected Ad properties" grid.

You can access the media plan, that is, view all ad blocks or selected ones only. To do it, click the **Ads overview** button and select the necessary view mode.

You can set the length of ad blocks as desired. Click "Block setup..." –> **"Sweepers..."**.

4.17 Editing tags

RadioBOSS has a built-in audio tag editor. It supports ID3v1, ID3v2, MP4, WMA, and other tag formats. You can see the tag editor below the playlist window.

If the tag editor is hidden, do either of the following:
* Press Ctrl+I
* Click the small (i) icon below the playlist
* In the menu, click View -> Track Information

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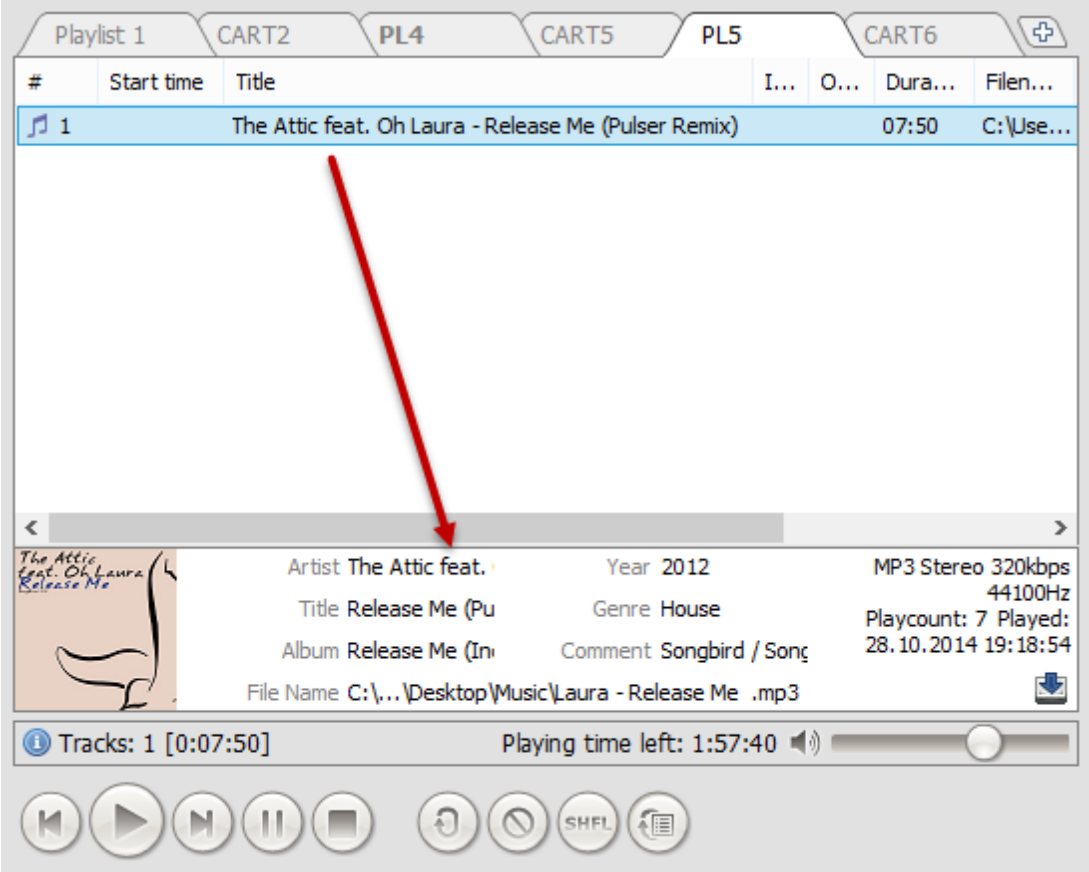

If there is no information about a track, you can enter the information manually. Just right-click on the information panel and select "Extract artist/title from filename". To save a tag, press enter or click the Save button in the bottom-right corner.

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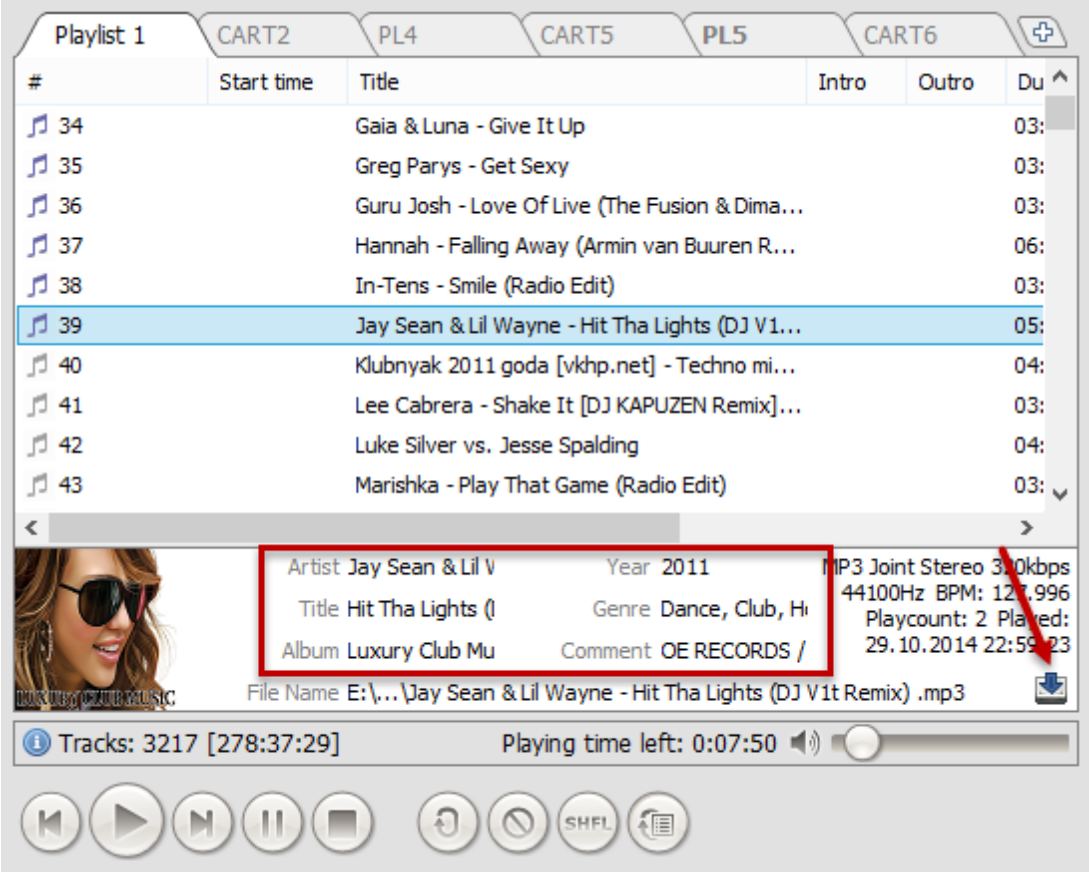
Playlist 1
CART2
PL4
CART5
PL5
CART6
Start time Title Intro Outro Du
34 Gaia & Luna - Give It Up 03:
35 Greg Parys - Get Sexy 03:
36 Guru Josh - Love Of Live (The Fusion & Dima... 03:
37 Hannah - Falling Away (Armin van Buuren R... 06:
38 In-Tens - Smile (Radio Edit) 03:
39 Jay Sean & Lil Wayne - Hit Tha Lights (DJ V1... 05:
40 Klubnyak 2011 goda [vkhp.net] - Techno mi... 04:
41 Lee Cabrera - Shake It [DJ KAPUZEN Remix]... 03:
42 Luke Silver vs. Jesse Spalding 04:
43 Marishka - Play That Game (Radio Edit) 03:
Artist Jay Sean & Lil W
Year 2011
Title Hit Tha Lights (I
Genre Dance, Club, H
Album Luxury Club Mu
Comment OE RECORDS /
MP3 Joint Stereo 320kbps
44100Hz BPM: 127.996
Playcount: 2 Played:
29.10.2014 22:59:23
File Name E:\...\Jay Sean & Lil Wayne - Hit Tha Lights (DJ V1t Remix) .mp3
Tracks: 3217 [278:37:29]
Playing time left: 0:07:50
SHFL

4.18 Converting to other formats

RadioBOSS has a built-in audio converter designed to help converting files to other audio formats and rip audio CD disks.

To convert a file to a new format, follow the steps below:

1. In the **Playlist** window right-click a file.

2. In the right-click menu select **Tools** -> **Convert...**

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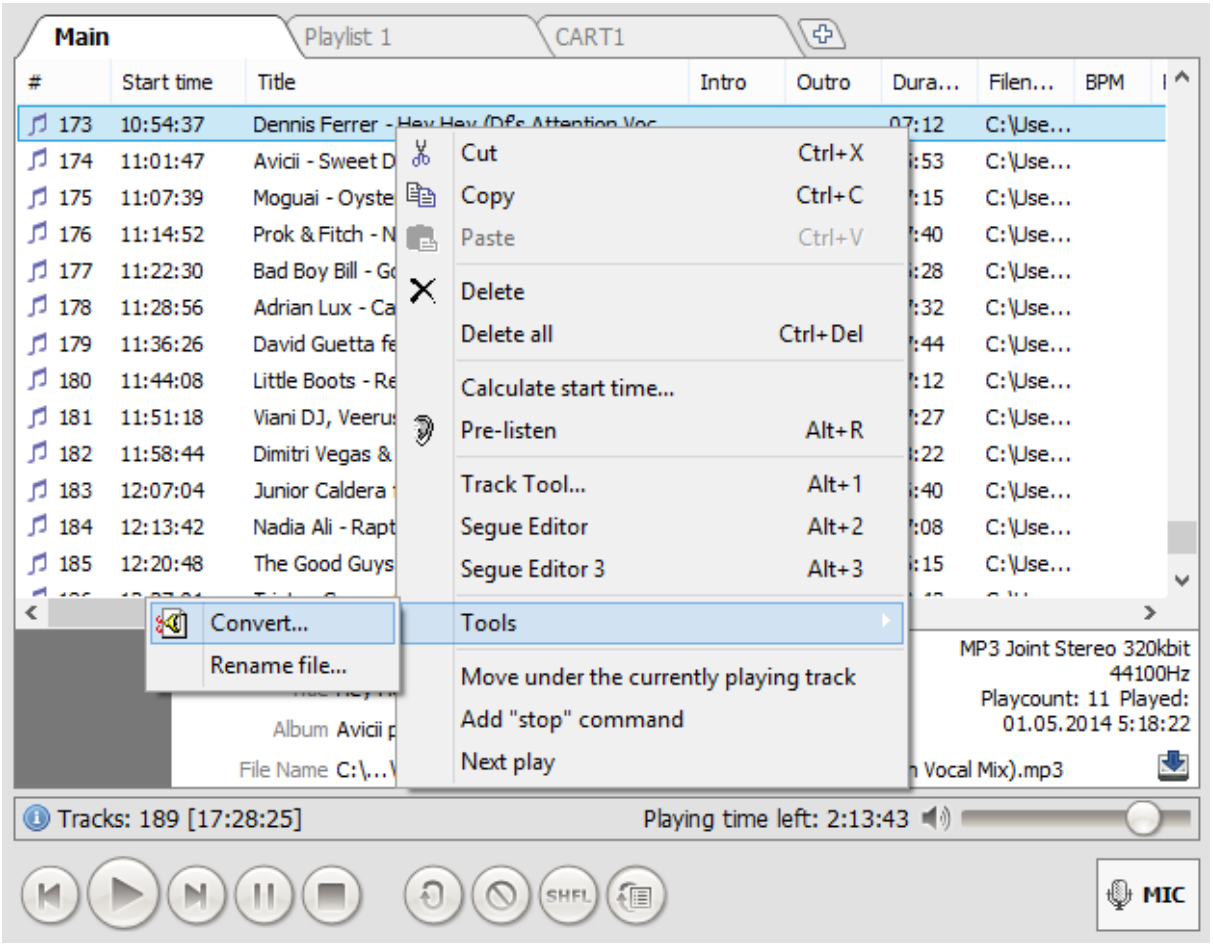

The **Converter** window appears. Now it is necessary to configure the output settings, including the output folder and codec. The output folder is a directory on the hard disk drive where converted tracks are saved and stored.

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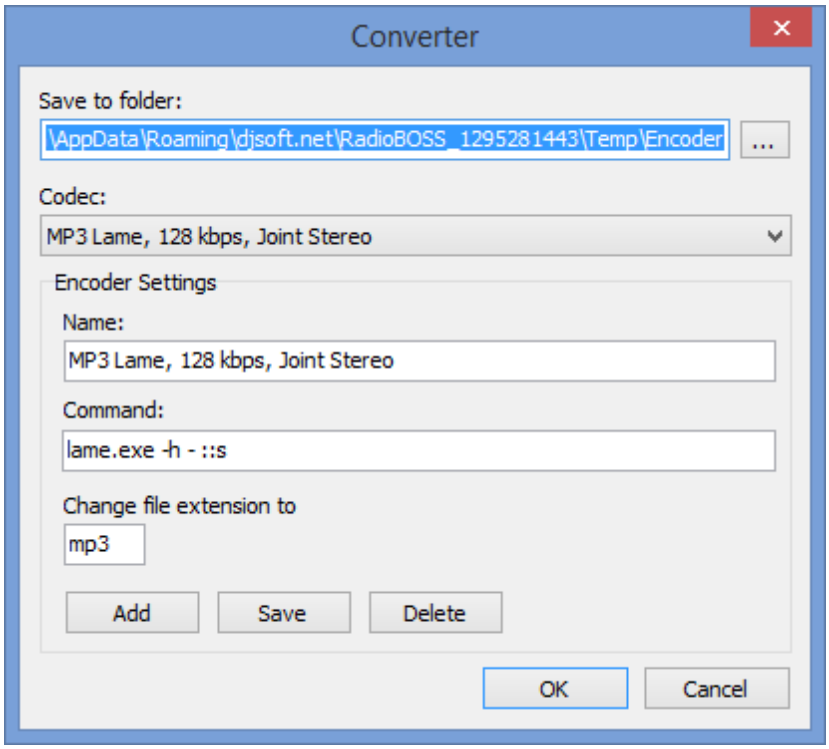
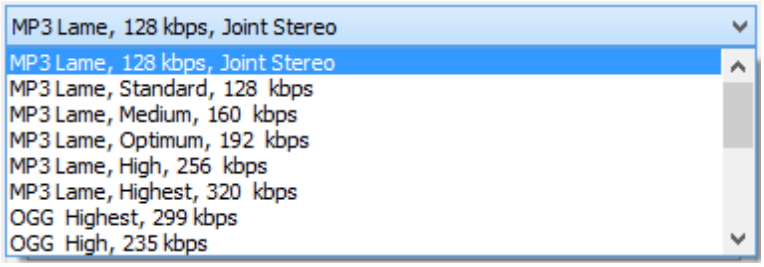


3. Select the output folder and codec.

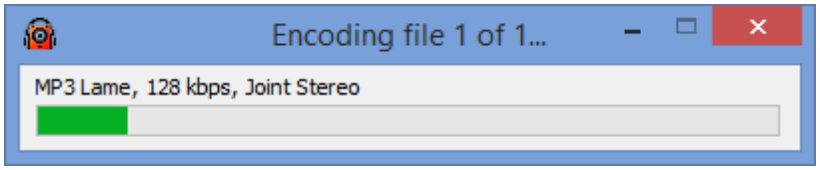
The Codec menu lets the user select the codec with a desired bitrate.


MP3 Lame, 128 kbps, Joint Stereo
MP3 Lame, 128 kbps, Joint Stereo
MP3 Lame, Standard, 128 kbps
MP3 Lame, Medium, 160 kbps
MP3 Lame, Optimum, 192 kbps
MP3 Lame, High, 256 kbps
MP3 Lame, Highest, 320 kbps
OGG Highest, 299 kbps
OGG High, 235 kbps

Now it is necessary to save the selected settings.

4. Click **OK**

The encoding process will start. The user can see the progress bar that shows the encoding process.



Once encoding is over, the encoded file can be found in the selected output folder.

More information:

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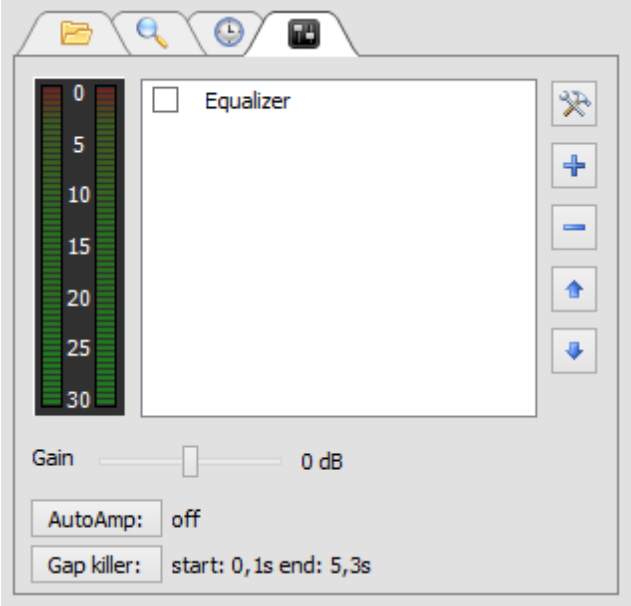
Enabling plugins

4.19 DSP manager

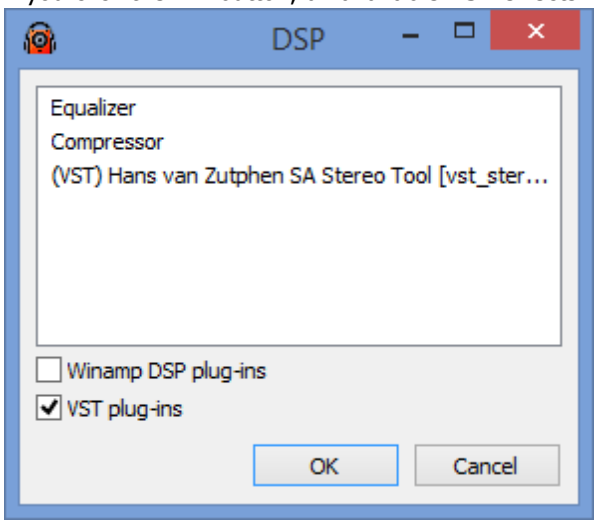
RadioBOSS lets you use VST and WinAmp DSP plugins (dsp_*.dll), except ones that change the speed of a stream. You can also use an integrated DSP (e.g. Equalizer or Compressor).

To open the DSP manager, select the FX tab on the control panel:



To add a DSP, click the "+" button. To remove a DSP, click the "–" button. To change DSP parameters, use the configuration button .
To move DSP up/down, use the up-arrow/down-arrow button. DSPs are applied from top to bottom.

If you click the "+" button, all available DSP effects will be shown:



Check the **Winamp DSP plug-ins** and/or **VST plug-ins** check boxes if you want to use these plugins. To

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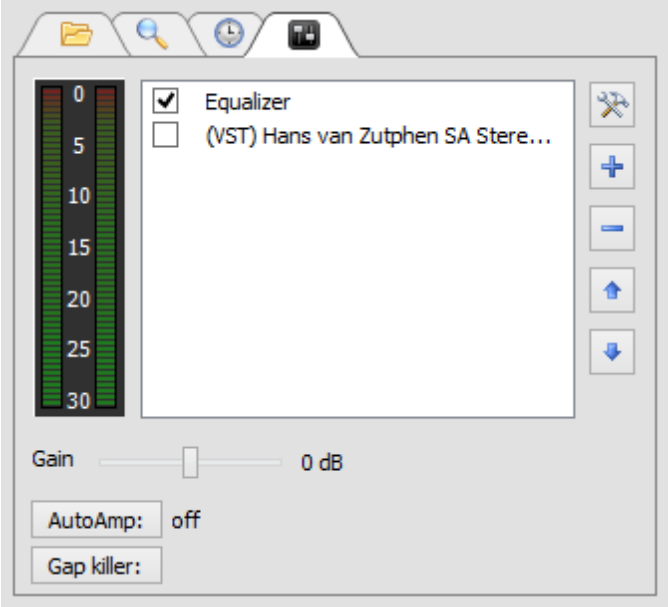
open the folder containing Winamp DSP plugins for RadioBOSS, click "**open plugins folder**." You can specify the location of the VST plugins folder via Settings -> FX.

Select a plugin and click OK. The plugin will be added to the DSP chain:



To turn DSP effects on/off, check/uncheck them in the list.

To install a WinAmp plugin, follow these steps:

1. Download and install the plugin.

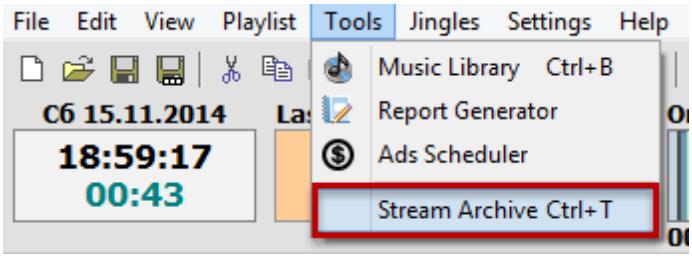
2. Open the plugin installation folder (usually "C:\Program files\Winamp\Plugins") and copy the plugin-related files from there to RadioBOSS's Winamp plugins folder ("**<RadioBOSS_Dir>\Plugins**").

3. After installing the plugins, check the **Winamp plug-ins** check box on the Plugins tab. All detected Winamp plugins should appear on the list.
Select the plugin that you want to start, and click the **Start** button.

4.20 Record your broadcast

This function can be used both for archiving your broadcasts and preparing prerecorded shows. With RadioBOSS, recording broadcasts is extremely easy.

To use this feature, select the **Stream Archive** item in the Tools menu.



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Alternatively, click the **Stream Archive** button on the toolbar.

A window will appear, where you can configure all necessary settings for recording a program. You can start or stop recording automatically, by adding an appropriate command to the schedule.

4.21 Remote Control API

You can control RadioBOSS remotely by using its Remote Control API.

Enable and configure this feature via the Settings window: Configure Remote Control API.

HTTP remote control API reference

Using HTTP Remote Control

Requests:

Note: When generating a request string, use one of the URL Encoding functions for parameters. For example, use **urlencode** (http://www.php.net/manual/en/function.urlencode.php) for PHP.

I. Executing a command. You can use the same commands as in the scheduler. Here's the list of commands available: Scheduler commands

Syntax:
http://IP:Port/?pass=PASSWORD&cmd=COMMAND
(substitute "COMMAND" and "PASSWORD" accordingly)

Example 1: Play the next track (command: next)
http://127.0.0.1:9001/?pass=WxPe2JXh&cmd=next

Example 2: Play the first track in the playlist (command: "play 1")
http://127.0.0.1:9001/?pass=WxPe2JXh&cmd=play%201

II. Performing an action

Syntax:
http://IP:Port/?pass=PASSWORD&action=ACTION
(substitute "ACTION" and "PASSWORD" accordingly)

Possible ACTION values:

playbackinfo get playback information	Returns: an XML containing the current and next track information, and playback position and state. Example: http://127.0.0.1:9001/?pass=WxPe2JXh&action=playbackinfo

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	An example of data returned: <?xml version="1.0" encoding="utf-8"?> <Info> <CurrentTrack> <TRACK ARTIST="L.A.O.S." TITLE="Fire On Water" ALBUM="UKF Drum & Bass 2010 (UKF002DD)" YEAR="2010" GENRE="Drum & Bass" COMMENT="ChitaDrita collection" FILENAME="D:\disko\drum n bass\LAOS - Fire On Water.mp3" DURATION="05:33" PLAYCOUNT="41" /> </CurrentTrack> <NextTrack> <TRACK ARTIST="Fracture Design" TITLE="The Lights Within Her Eyes (Nelver Remix)" ALBUM="Liquid D&B Essentials 2011 Vol.1" YEAR="2011" GENRE="Drum & Bass" COMMENT="" FILENAME="D:\disko\drum n bass\01-fracture_design-the_lights_within_her_eyes_(nelver_remix).flac" DURATION="07:54" PLAYCOUNT="17" /> </NextTrack> <Playback pos="74518" len="333264" state="play" /> </Info>
inserttrack insert a track into the playlist	Parameters: "filename" — local file name "pos" — a position in the playlist where track should be inserted (1 ... N). Other possible values: -1: insert into the end of the playlist -2: insert after playing the track Example: Insert the track "D:\music\track.mp3" http://127.0.0.1:9001/?pass=WxPe2JXh&action=inserttrack&filename=D%3A%5Cmusic%5Ctrack.mp3&pos=-2
library download a music library file (xml)	Parameters: "filename" — music library file name Returns: music library file contents Example: http://127.0.0.1:9001/?pass=WxPe2JXh&action=library&filename=Base
trackartwork download artwork for the current track	Returns: artwork for the currently playing track (or nothing if there is no artwork)
nexttrackartwork download artwork for the next track	Returns: artwork for the next track (or nothing if there is no artwork)
setnexttrack set the next track	Parameters: "pos" — the position of a track in the playlist, which will be selected as a next track (1 ... N) Example: Set the first track in the playlist to be played next. http://127.0.0.1:9001/?pass=WxPe2JXh&action=setnexttrack&pos=1

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delete delete a track from playlist	Parameters: "pos" — the position of a track in the playlist, which will be deleted (1 ... N) Example: Delete second track in the playlist http://127.0.0.1:9001/?pass=WxPe2JXh&action=delete&pos=2
move move a track to another position in the playlist	Parameters: "pos1" — original track position "pos2" — new track position
trackinfo get track information	Parameters: "pos" — the position of a track in the playlist Example: http://127.0.0.1:9001/?pass=WxPe2JXh&action=trackinfo&pos=2 An example of data returned: <?xml version="1.0" encoding="utf-8"?> <Info> <Track> <TRACK ARTIST="ATB" TITLE="the summer (airplay desire)" ALBUM="" YEAR="" GENRE="" COMMENT="" FILENAME="D:\Atb - The Summer (Airplay Desire).mp3" DURATION="03:22" PLAYCOUNT="157" INTRO="4.82" /> </Track> </Info>
mic turn microphone on and off	Parameters: "on" - 0 to turn microphone off, 1 to turn on
getplaylist get playlist contents	Returns: an XML containing the playlist contents
songrequest add song request	Parameters: "filename" - file name of a requested song (full path) "message" - optional, message from a user who requested a song To manually view the list of requested songs, in the menu click View->Song Requests... To automatically play the requested songs use the **playrequestedsong** scheduler command.
songrequestclear clear the requested songs list	Clears the requested songs list.

4.22 User Account Management

The "**User Access Control**" function of RadioBOSS enables you to control users' access to various program features, such as playlist editing; adding, changing and removing tabs; playback control; effects modification, etc. This feature is only available in **RadioBOSS Advanced** edition.

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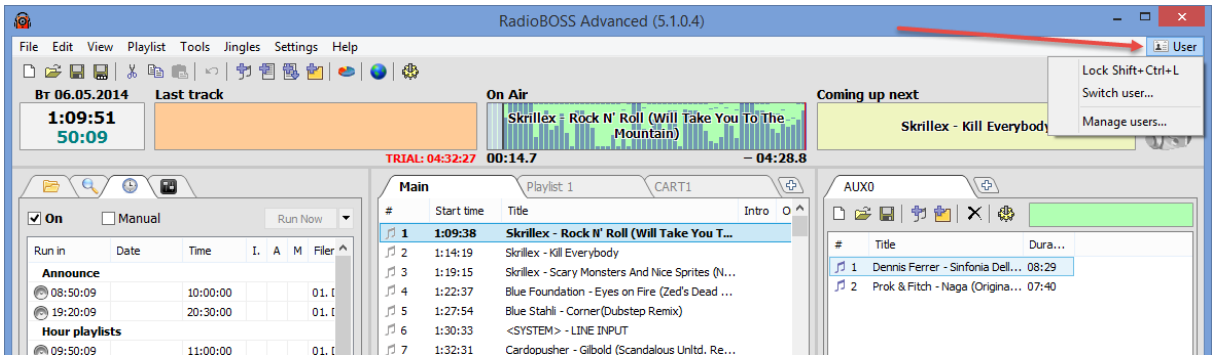
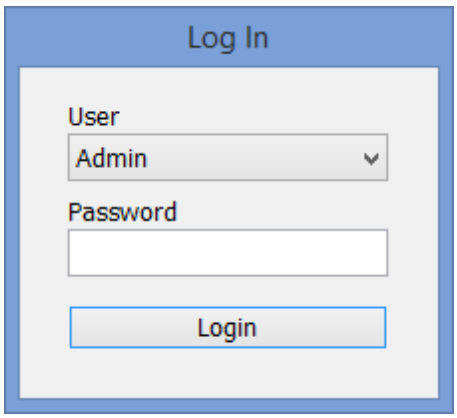


The "**Lock**" function: when this option is enabled, you will see a window that will lock the program until the password is entered or another user logs in:



Every option of the **Users** function are easy to configure. User settings can be changed only after entering the admin password.

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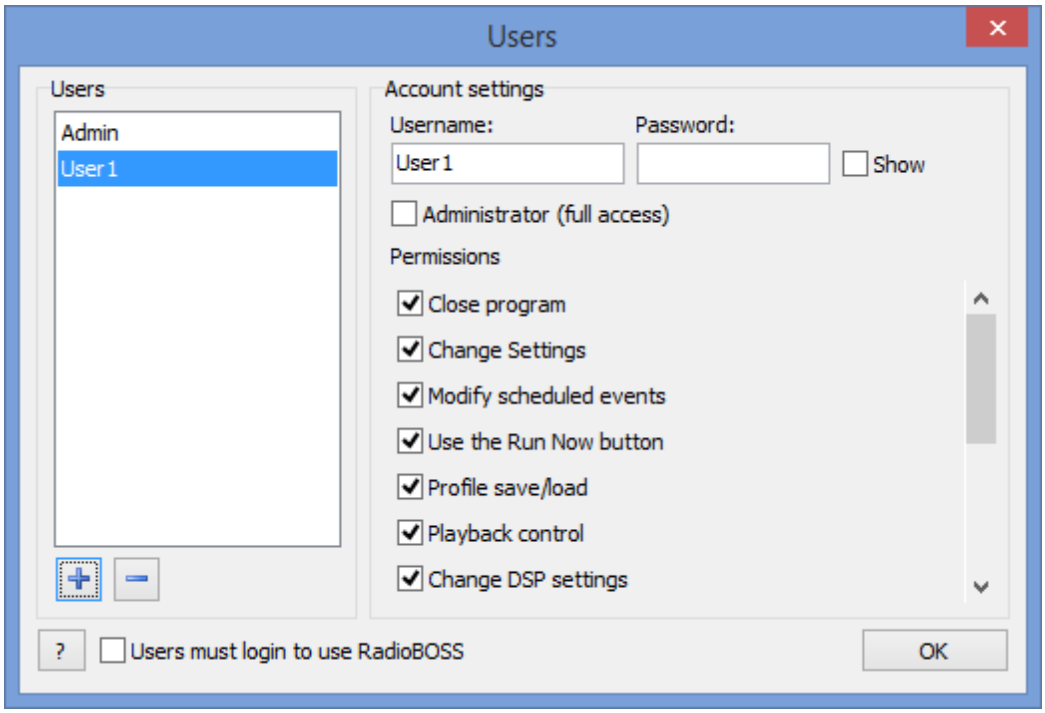

Enabling the "**Administrator (full access)**" option grants all available permissions.

If you have enabled the "**Users must login to use RadioBOSS**", you will need to enter the password of one of the users to use RadioBOSS.

ATTENTION! Please remember that if you lose or forget the admin password, you may lose access to the program.

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Part V

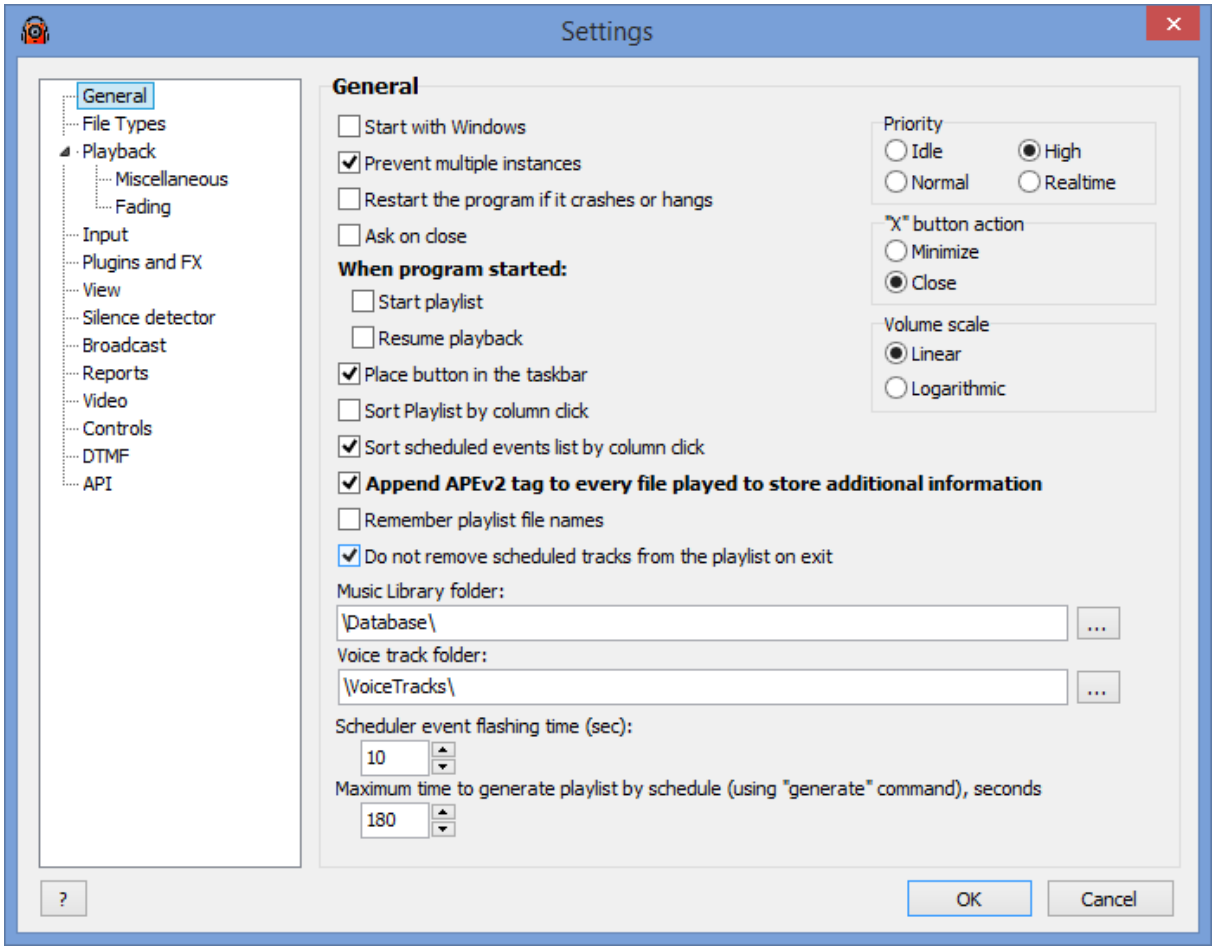
5 Options

5.1 General

RadioBOSS allows users to customize many options as personal preferences.

To customize the general settings:
On the top menu bar, select **Settings** > **Options...**

The **Settings** dialog opens.



In the **General** window, users can customize these settings:

Start with Windows	Run RadioBOSS at Windows startup.
Prevent multiple instances	Run only one instance of RadioBOSS. By default, this option is checked.
Restart the program if it crashes or hangs	Program will be auto-restarted in case of fatal error, crash or hang. The playback will be resumed automatically

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Ask on close	A confirmation box will appear when you close RadioBOSS
Start playlist	Play first track in playlist when RadioBOSS is launched.
Resume playback	Resume playback when RadioBOSS is launched.
Place button in the taskbar	Put the RadioBOSS button in the taskbar. By default, the option is checked.
Sort Playlist by column click	Sort a playlist by clicking on the columns (#, Start time, Title, Intro, Outro, Time, etc.).
Sort scheduled events list by column click	Sort scheduled events list by clicking on the columns
Append APEv2 tag to every file	Append Apev2 tag to every file played to store additional information like Playback count, last playback date/time, etc. On by default, turn this off if you don't want your files to be modified.
Remember playlist file names	If checked the playlist file names for all playlist tabs will be preserved between sessions
Music library work folder	Specify a folder where Music Library files will be stored. Libraries from this folder will appear in Libraries list in Search
Voice track folder	Folder where voice tracks are saved. Only files from this folder are treated as voice tracks.
Scheduler event flashing time	Set the time for a scheduled task to flash in the **Coming Up Next** window before its playback starts.
Priority	Select a priority for RadioBOSS. High priority is recommended for smooth playback, this is the default setting.
"X" button action	Set an action to be taken after clicking the **Close** button in the upper-right corner.
Volume scale	Select a volume scale look.
Maximum time to generate playlist by schedule	Timeout when using the "Generate" command in the scheduler event. If a playlist is not generated within the specified timeout, the playlist generator is aborted. Usually 10 seconds is enough.

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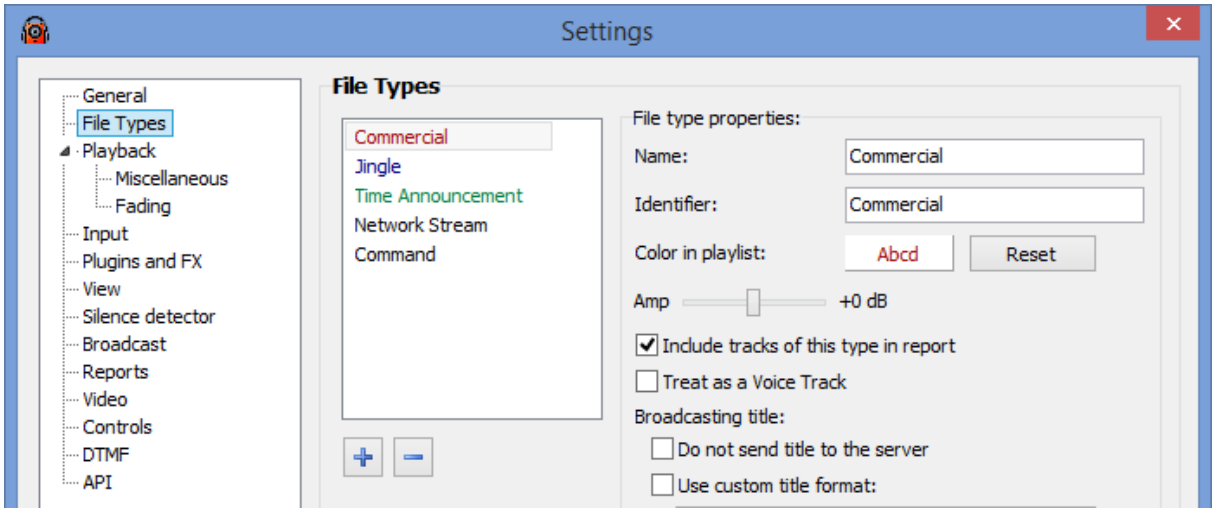
5.2 File types

To customize file types:
On the top menu bar, select **Settings** > **Options...**
Select File Types category



For more information, please refer to the Using different types of files topic.

5.3 Playback

Playback device configuration.

To configure the playback properties, follow these steps:
1. On the top menu bar select **Settings** > **Options...**
2. Click **Playback**.

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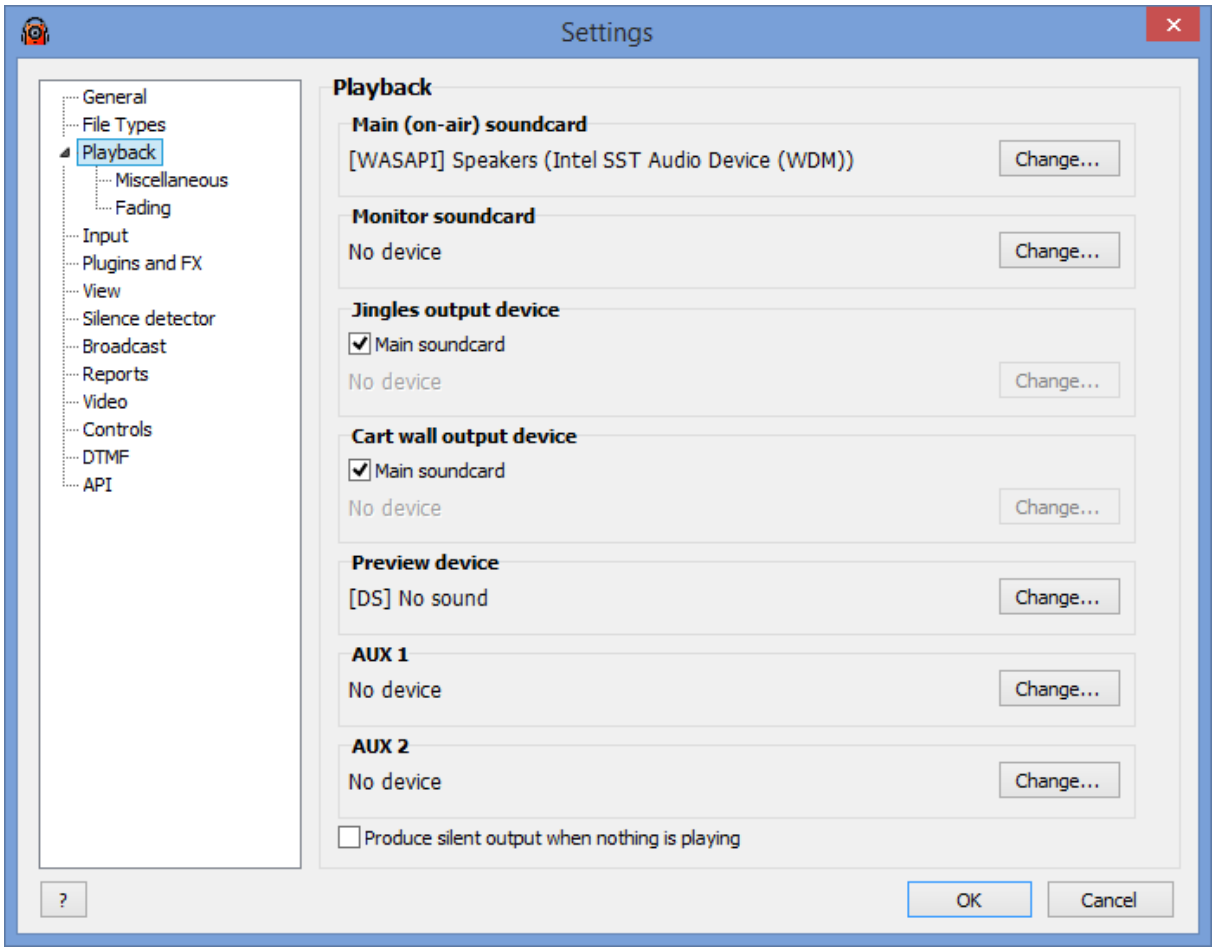

In the Playback window, users can configure Playback Devices:

Main soundcard	Select the main output device that is to be used to play the playlist and scheduled tracks. RadioBOSS takes advantage of ASIO sound cards and Windows 7 WASAPI interface.
Monitor soundcard	In addition to the Main soundcard, RadioBOSS can output the same signal to another sound card. Disabled by default. Warning: do not select the same sound card for Main and Monitor as this will lead to sound problems such as echoing.
Jingles device	Jingles will play on a different device. This setting only affects the quick-access jinlgles, and not jingles in the playlist. If the "Main soundcard" is checked, the jingles will play on the Main soundcard.
Cart wall device	Carts will play on a different device.

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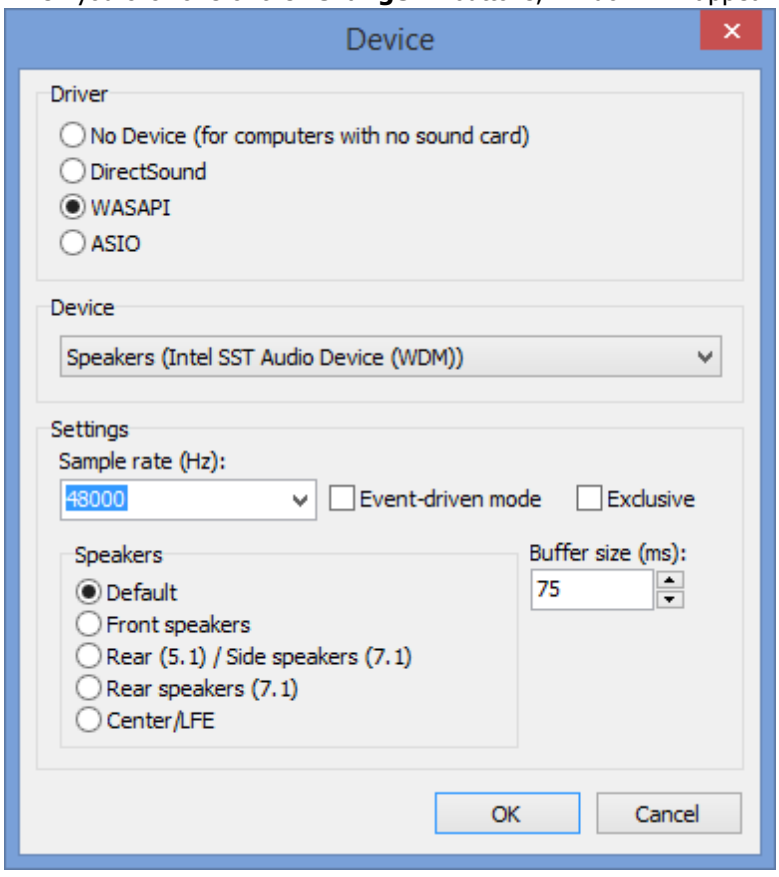
	If "Main soundcard" is checked, the jingles will play on the Main soundcard.
Preview device	Select the "pre-listen" output device and speakers. Users can pre-listen to a track in the player window. To do so, right-click a track from the playlist and from the context menu, select **Pre-listen**.
AUX 1 **AUX 2**	Sound devices which can be used in AUX Players
Produce silent output when nothing is playing	Produce silent stream when nothing is playing

When you click one of the "**Change...**" buttons, window will appear:



Here, you can set the following:

Driver	Driver you want to use. Recommendations: 1) if you have an ASIO capable sound card, you may want to use ASIO output as this will reduce the latency to a minimum. 2) if you're using Windows Vista, 7 or 8 - choose WASAPI. Latency is very low at

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	this mode. This option is not available on Windows XP or prior. 3) otherwise, choose DirectSound If your computer has no sound card or you want to use RadioBOSS for encoding/ decoding purposes only (for example, broadcasting) - choose "No Device".
Device	Choose the sound card you want to use.
Settings	Set sound card settings: **Sample rate** - sample rate in Hz, 48000 is the default. **Buffer size (ms)** - buffer size, 50 ms recommended for WASAPI, 500 ms when you're using DirectSound. ASIO uses the sound card setting. **Output channels** (ASIO only) - set channels on which you want to play the sound. To unselect a channel, press DEL key on the keyboard. **Speakers** - select the sound card speakers. For this option to work, with the Windows Sound settings or sound card control panel you should set it to a multi-speaker configuration.

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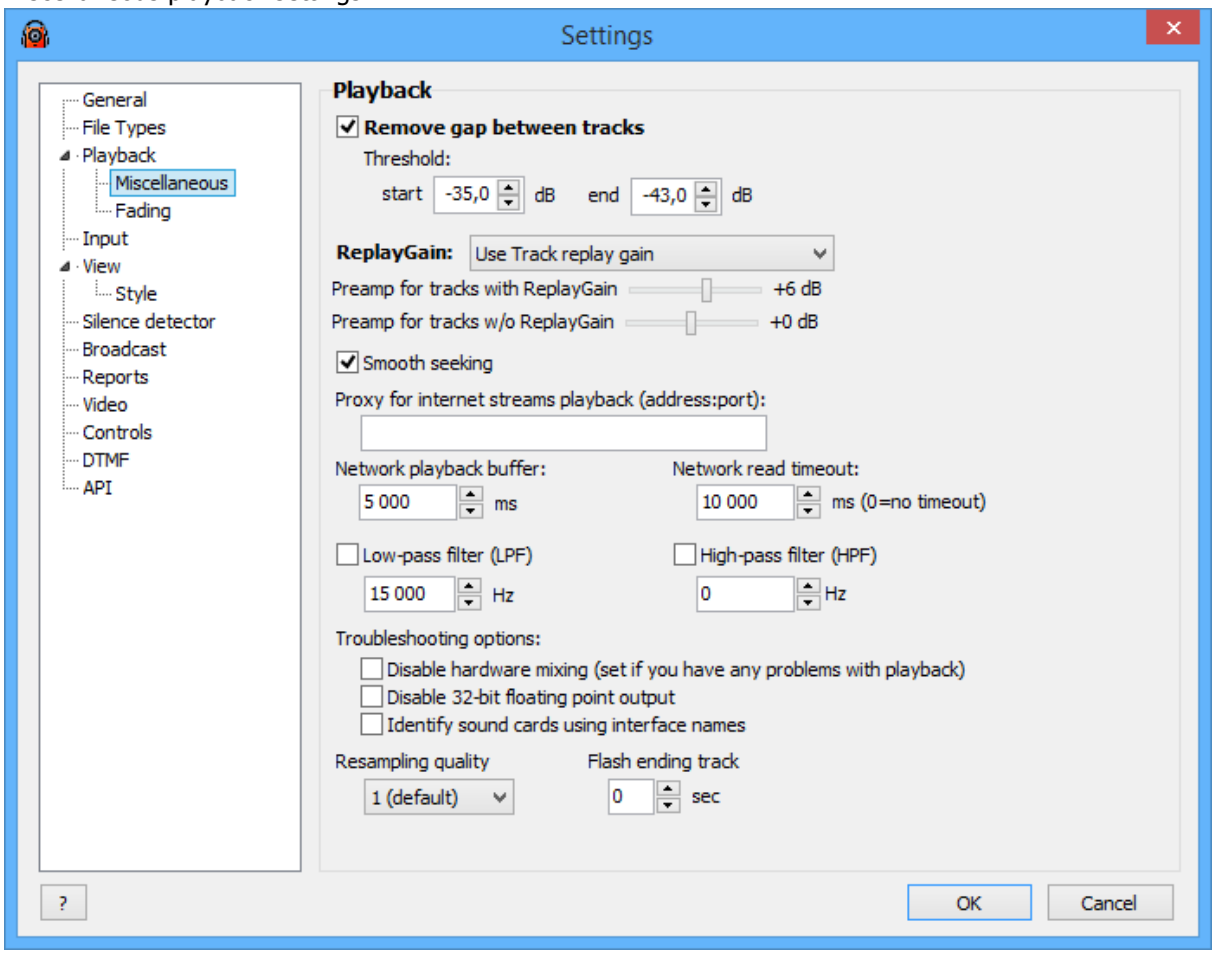
5.3.1 Miscellaneous

Miscellaneous playback settings.



Remove gap between tracks	Remove the gap between tracks. This will automatically remove silence at the beginning and end of a track. **Threshold** setting controls trimming levels.
ReplayGain	Set how ReplayGain tag should be treated
Smooth seeking	Enable smooth seeking (with short fade)
Proxy for internet streams playback	If you want to use a proxy for network streaming playback, enter its address.
Low-pass filter/High-pass filter	Enable Low-pass and high-pass filters if you need to, and set the cutoff frequency.
Flash ending track	This option will help you keep track of the countdown displayed below the track currently on the air. When the specified number of seconds before the end of the track is reached, the countdown

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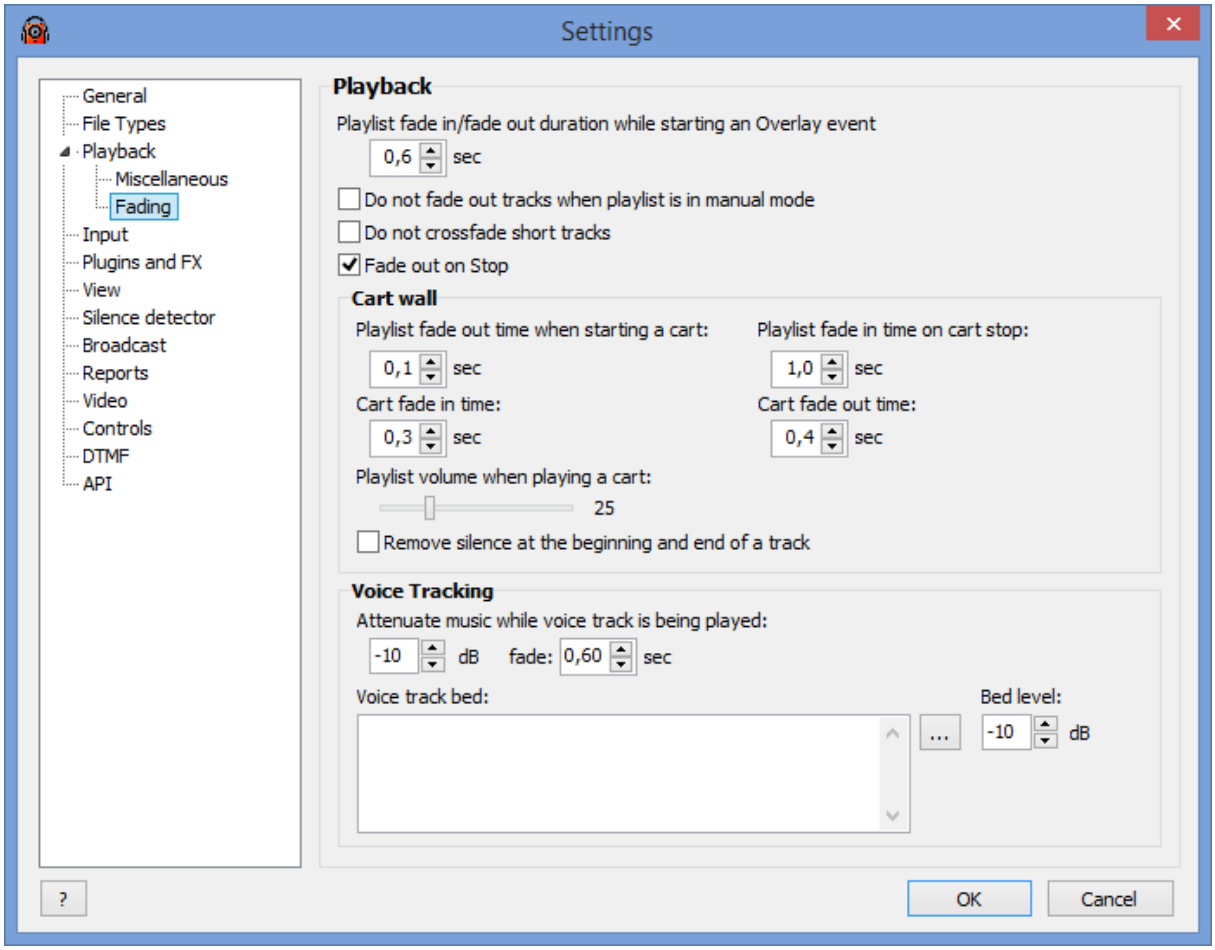
	will start blinking red.

5.3.2 Fading

Settings for crossfades, cart wall and voice tracking.



Playlist fade in/fade out duration while starting an Overlay event	Set the fade type for scheduler events with Overlay Playback option or Jingles. This option controls how smooth the playlist volume change would be
Do not fade out tracks when playlist is in manual mode	When "Stop after this track" button is pressed, the tracks will not be faded out
Do not crossfade short tracks	Tracks shorter than 45 seconds will not be crossfaded
Fade out on Stop	Fade out starts when you click the Stop button. If turned on, you can still stop the track immediately by double-clicking the Stop

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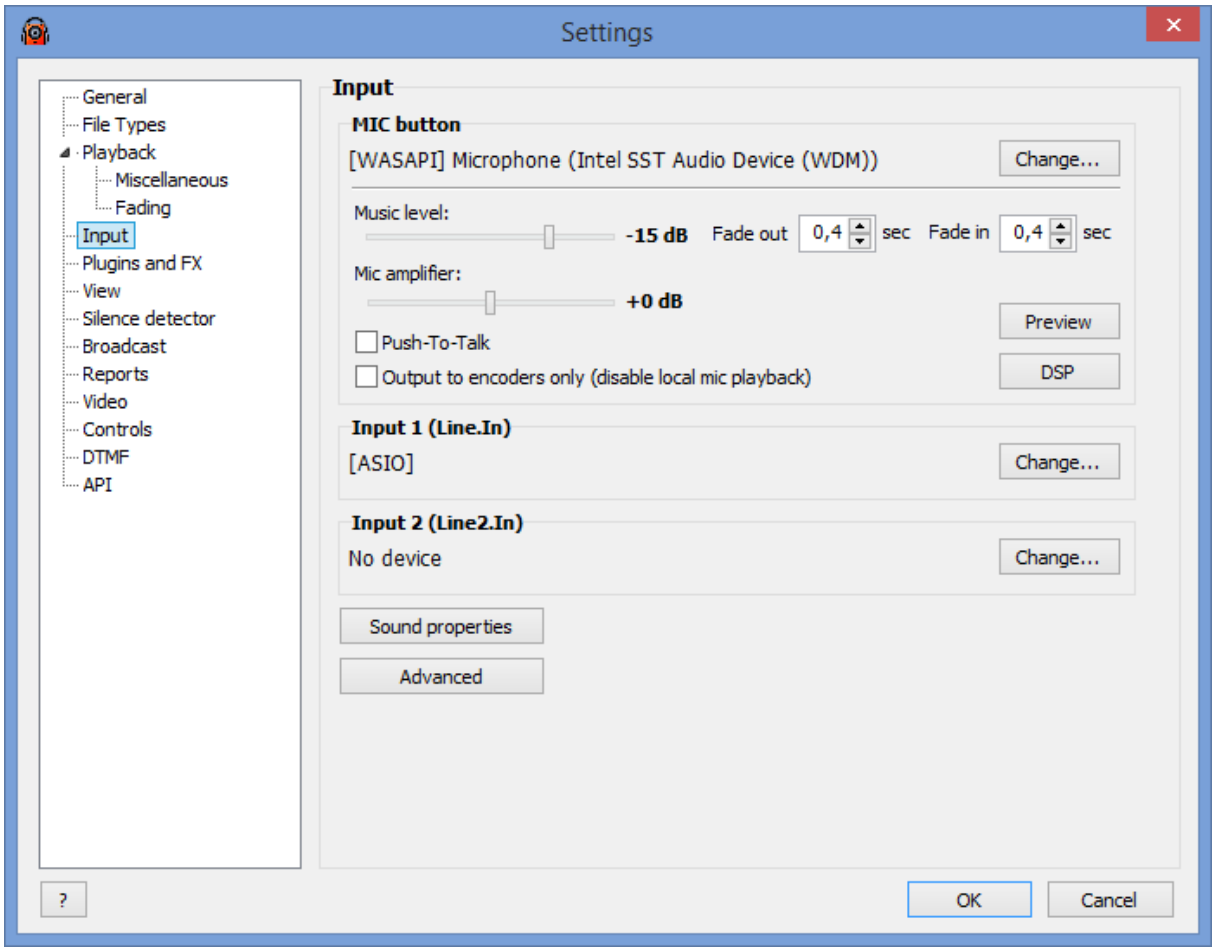
	button.
Cart wall	Set the Cart Wall playback parameters
Voice Tracking	Controls voice track playback

5.4 Input

RadioBOSS allows users to configure the microphone and line-in settings. These settings are used when the line input is played with the LINE.IN file, for MIC button and DTMF signal detection.

To configure the microphone and line-in settings, follow these steps:
1. On the menu bar, select **Settings** > **Options...**
The Settings dialog opens.

2. Click **Input**.



MIC button

In this section, you set how the "MIC" button operates. The button is located in the bottom right corner of the main window.

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Click **Change...** and select the appropriate **Driver** (DirectSound/WASAPI/ASIO/Windows Mixer) and **Device** - the sound card you want to use.

Note, that it is not recommended to use the "Windows mixer control", as the sound from the microphone will not go on air if RadioBOSS is used to broadcast to the Internet. However, if an external application is used to broadcast, the Windows mixer can be used.

Music level - playlist level when the microphone is on. Fade in/out sets how fast the volume is changed.

Mic Amplifier - increase the microphone volume. If your microphone is too quiet, also check the sound card settings (click Preview to test the setting).

Push-to-Talk - enable Push-to-Talk mode of operation for the Mic button.

Output to encoders only - when enabled, you won't hear yourself in the speakers/monitors. But listeners connecting to your station will hear you. If the echo is still present, disable microphone monitoring in the sound card properties. If this option is on, we recommend alsoturning on the option "Produce silent output when nothing is playing" in the playback settings.

Click **DSP** button to add DSP chain to microphone.

The **DSP** button lets you assign different effects for the microphone.
You can also assign effects for the microphone by right-clicking the **MIC** button. Please note that you cannot use the same Winamp DSP plugins as for broadcasting.

Line Input 1 (Line.in file), Input2 (Line2.in)

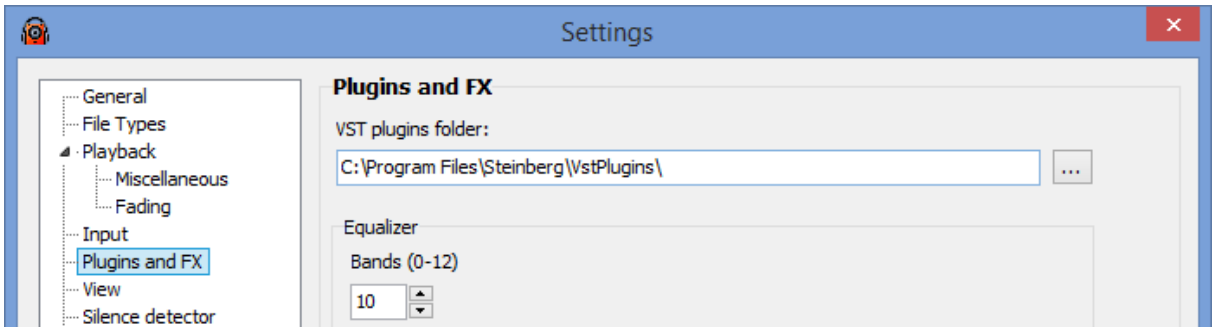
Furthermore, users can select a driver and device for LINE.IN.

More information:
Enabling microphone
Working with linear input

5.5 FX

To set up FX settings, follow these steps:
1. On the top menu bar, select **Settings** > **Options...**
The Settings dialog opens.

2. Click **Plugins and FX**.



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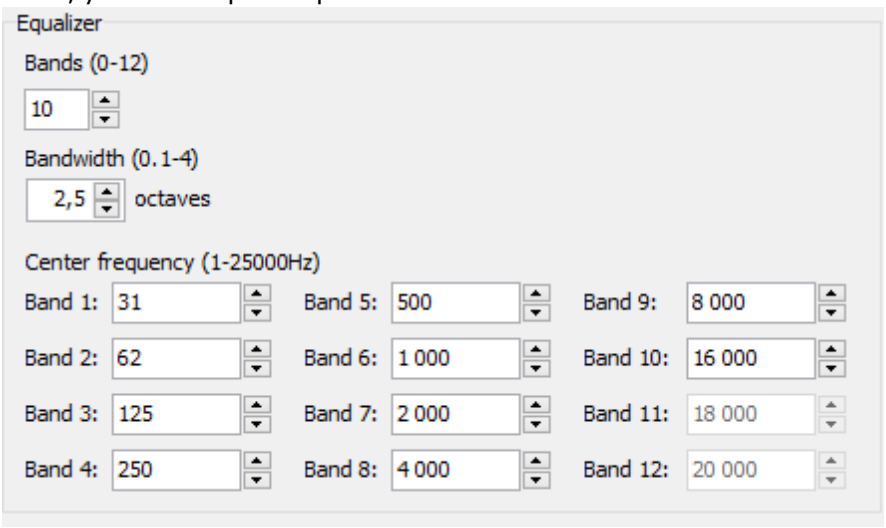
In the **FX** window, users can enable **Tempo FX** and **Winamp plugins**. Find more information on WinAmp plugins in Winamp DSP Plugins.

Tempo FX is for tempo/pitch/sample rate silders on the FX tab - disable if you don't plan to use those sliders (for better performance).

Below, you can setup the equalizer bands:



More information:
DSP Plugins

5.6 View

RadioBOSS allows users to customize the look of a playlist window, change fonts and colors, change time and track title format (12/24 hour) and more

To customize view settings, follow these steps:
1. On the top menu bar, select **Settings** > **Options...**
2. Click **View**.

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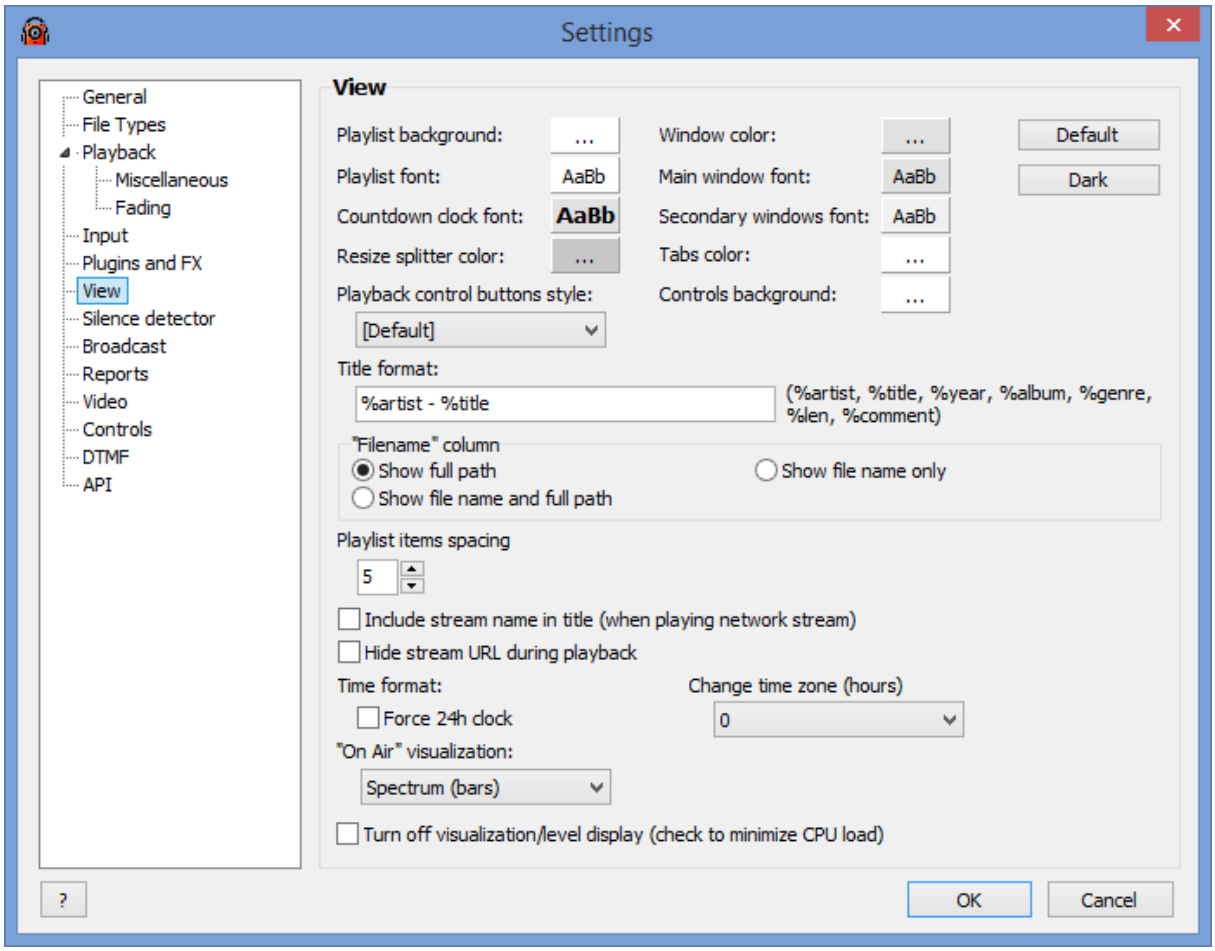

Playlist background	Select playlist background color
Playlist font	Select playlist font
Window color, Window font	Change main window color and font
Countdown clock font	Change countdown timers font
"Filename" column	Select what "Filename" column in the playlist should display
Title format	Track title format in the playlist. For example, if you want to include album information, you may use this string: %artist - %title - %album
Include stream name in title	When playing an Internet stream include its title. If unchecked, only the track title will be displayed.
Hide stream URL during playback	Hides stream URL when playing the Internet stream

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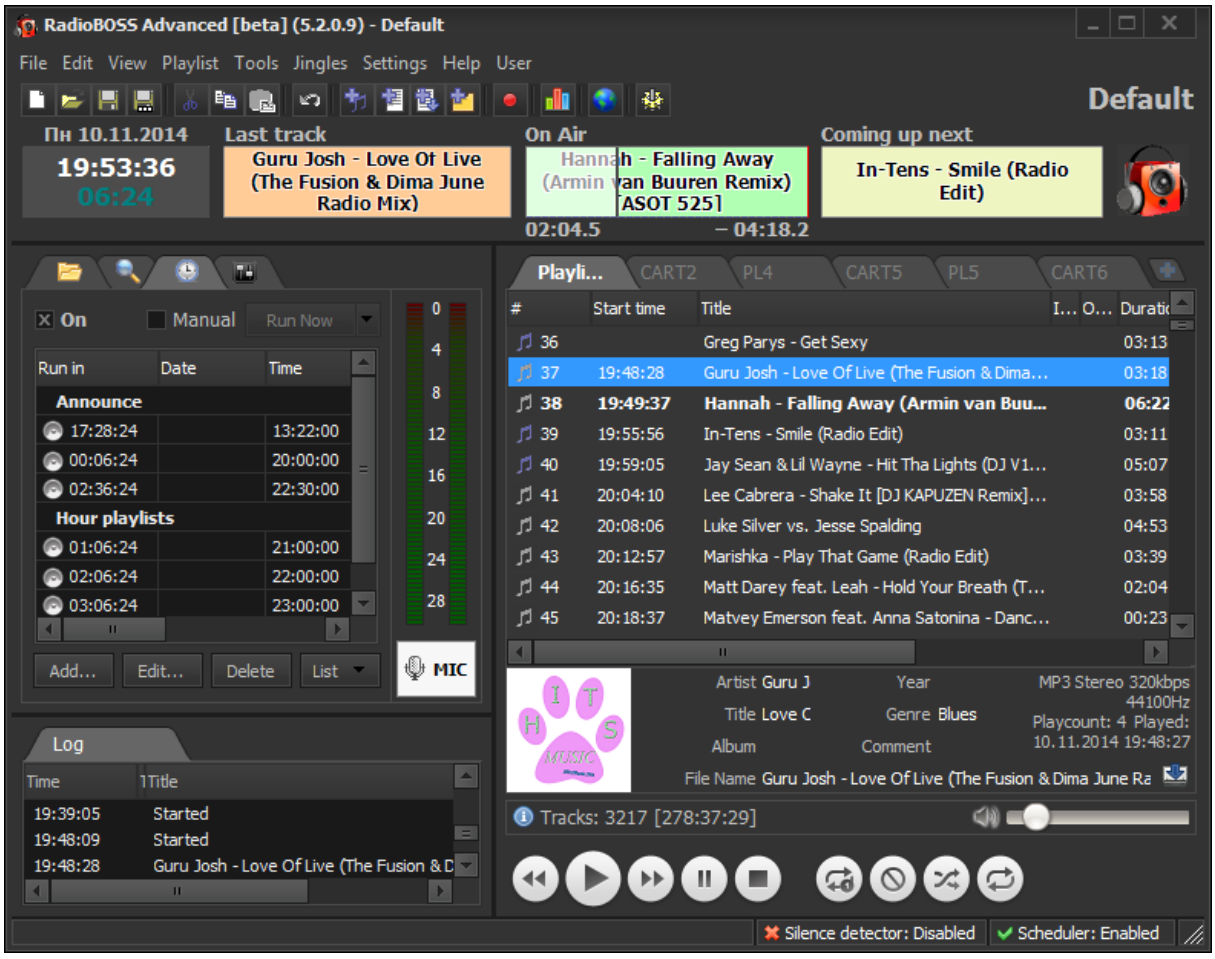
Force 24h clock	Turn this on if you want to have clochs in 24 hour format. Otherwise it uses operating system format
Change time zone	Changes time zone for RadioBOSS - it affects clock display and scheduled events
"On air" visualization	Visualization style in the "Now playing" bar
Turn off visualization/level display	Turn this on to reduce CPU usage

You can change the program's appearance in the "**Style**" section.



5.7 Silence detector

RadioBOSS allows you to define actions to be taken on silence (when nothing is playing in the playlist). These settings can be configured in the **Silence detector** window.
Silence detector checks the output sound level and if it's below the defined threshold, it will perform an action.

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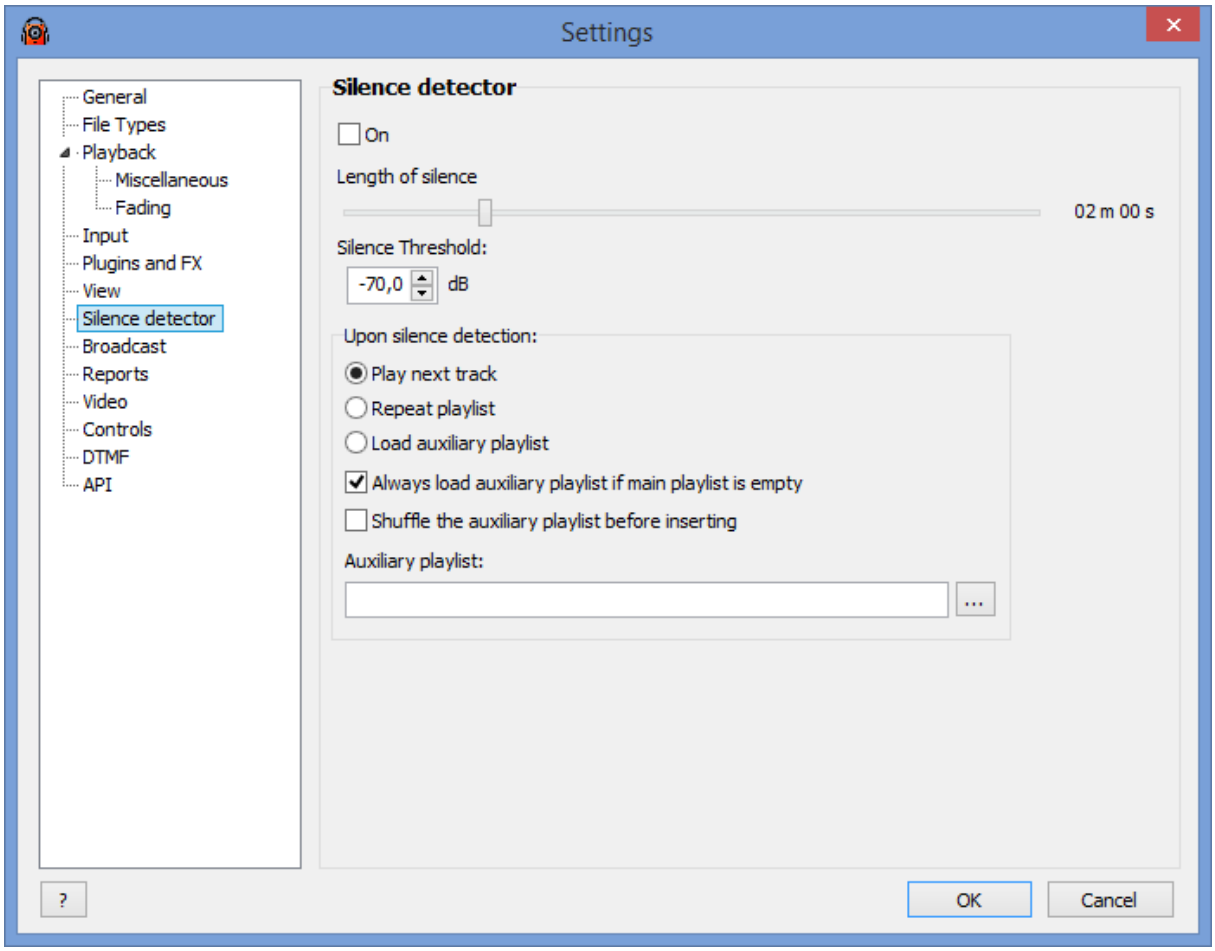

To configure the Silence Detector, follow these steps:

1. On the top menu bar, select **Settings** > **Options...**

2. Click **Silence detector**.

3. Toggle the slider to define the length of silence. For instance, if you set it to 10 seconds, then after 10 seconds of silence, the Silence Detector will perform an action.

4. The next step is to choose the action to take on silence. The program can play the next track, repeat the current playlist or load an extra playlist for playback.

5. To enable the silence detector, check the **On** box.

6. Click **OK**.

More information:
Playback

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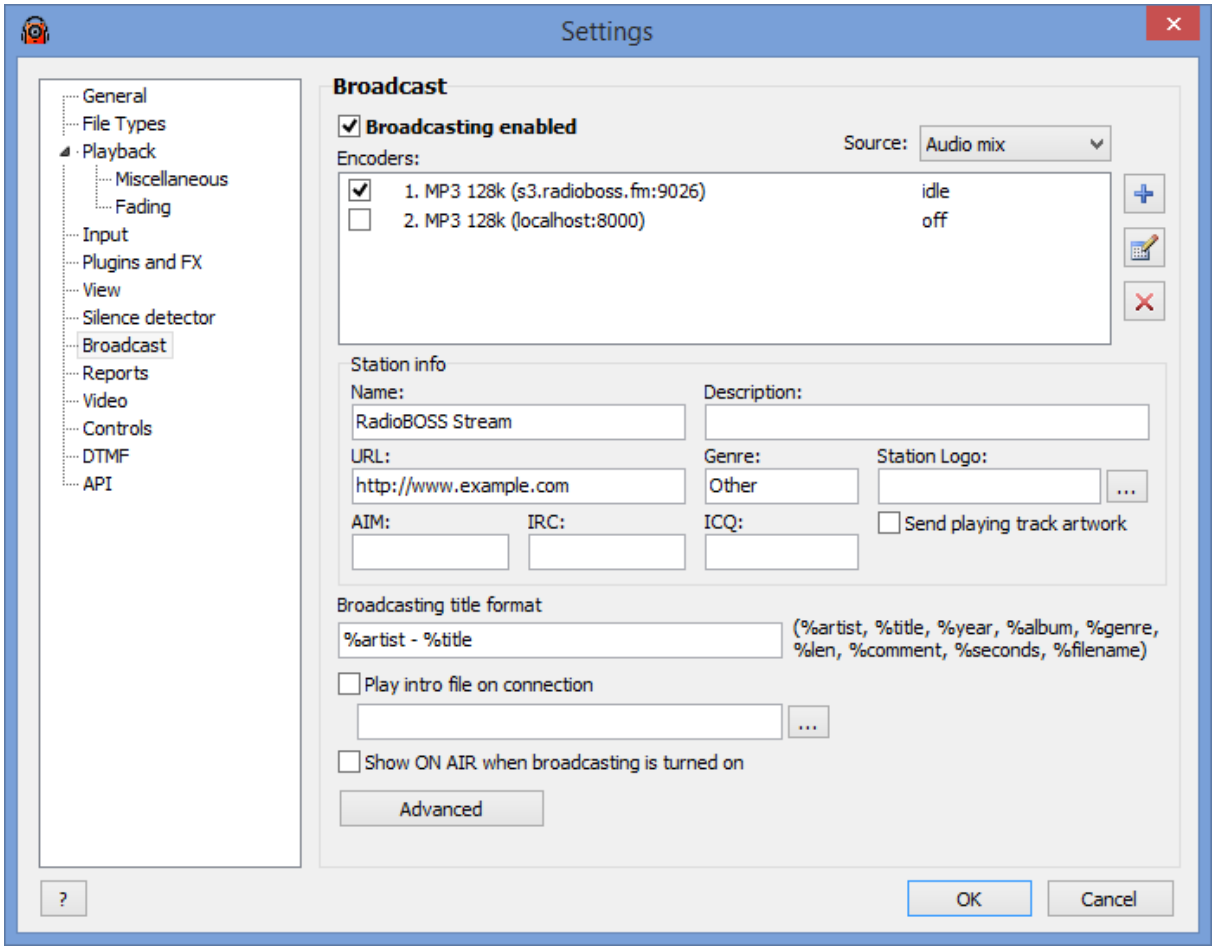
5.8 Broadcast

RadioBOSS enables broadcasting Internet radio for users who want to create their own internet radio station. It is possible to set up any number of output streams, each with its own unique configuration. Broadcasting settings can be configured in the **Settings** dialog.



Please refer to the Broadcasting Internet radio topic for more information.

5.9 Reports

RadioBOSS keeps a log of tracks that have been played. Moreover, the program can save the title of a track which is currently being played to a file and upload this file to a specified FTP server. The program can also use HTTP request to submit parameters of a current track to a specified URL address. The parameters include artist, title, duration, genre, album and other information. It can also send notifications of various events, such as errors, to an e-mail address.

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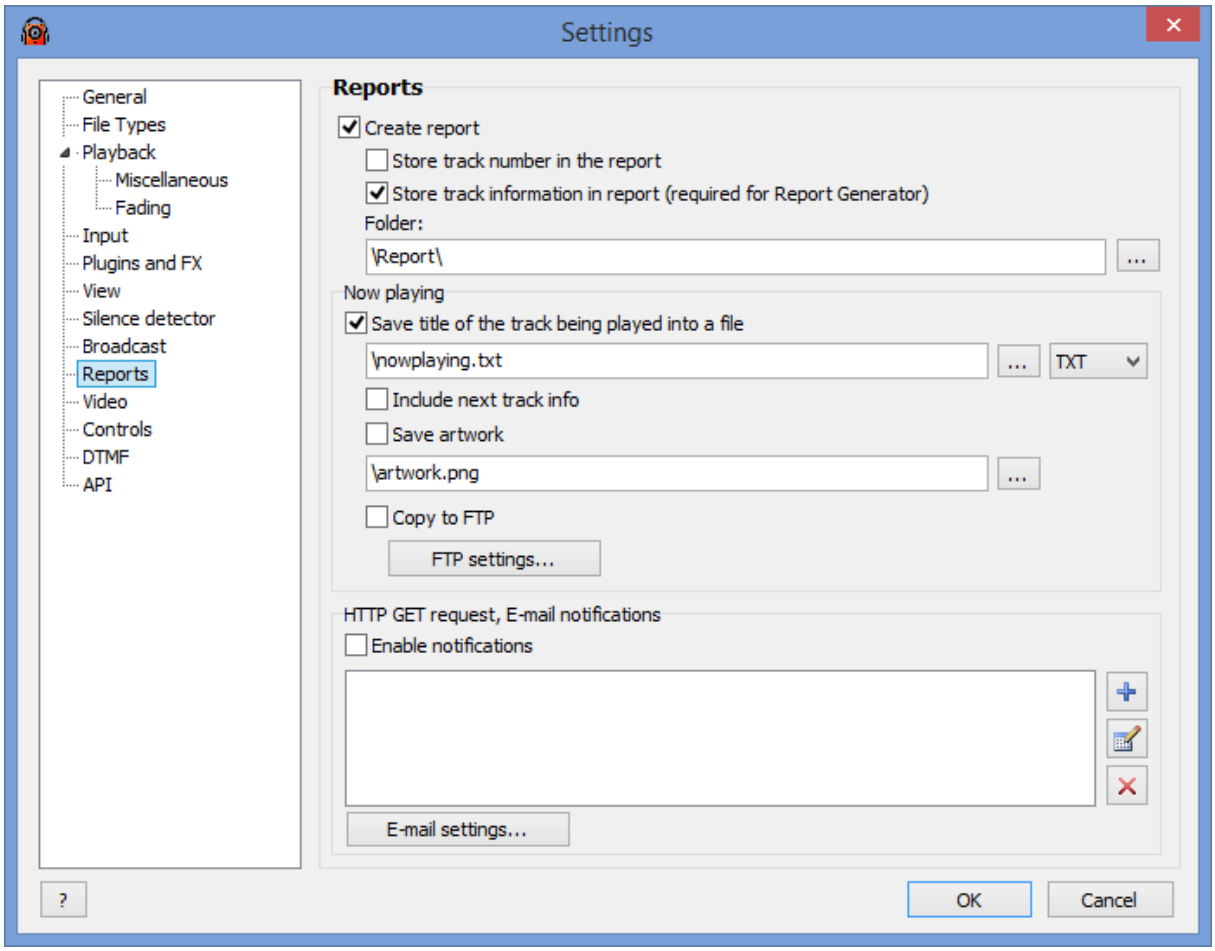

To set up log file settings, follow these steps:

1. On the top menu bar, select **Settings** > **Options...**

2. Click **Reports**

By default, the reporting feature is enabled. You can set the program to include a track number into a report and change the folder to save reports.

Optionally, you can set the program to save the title of a track which is being played (**nowplaying.txt**) to a file and upload it to an FTP server.

The **Save artwork** turns on artwork export. The artwork will be saved as a PNG image and resized to be at most 400 pixels in size.

Include Next Track info - if enabled, the nowplaying.txt file will contain the next track information as well.

3. To set up an FTP server connection parameters, click the FTP Settings... button.

The program also allows using HTTP request to send current track information to a specific URL address. It can also send notifications of various events such as: server connect and disconnect, silence detector actions, errors.

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Please see this page: Using notifications.

4. Click **OK**.

More information:
Broadcasting internet radio

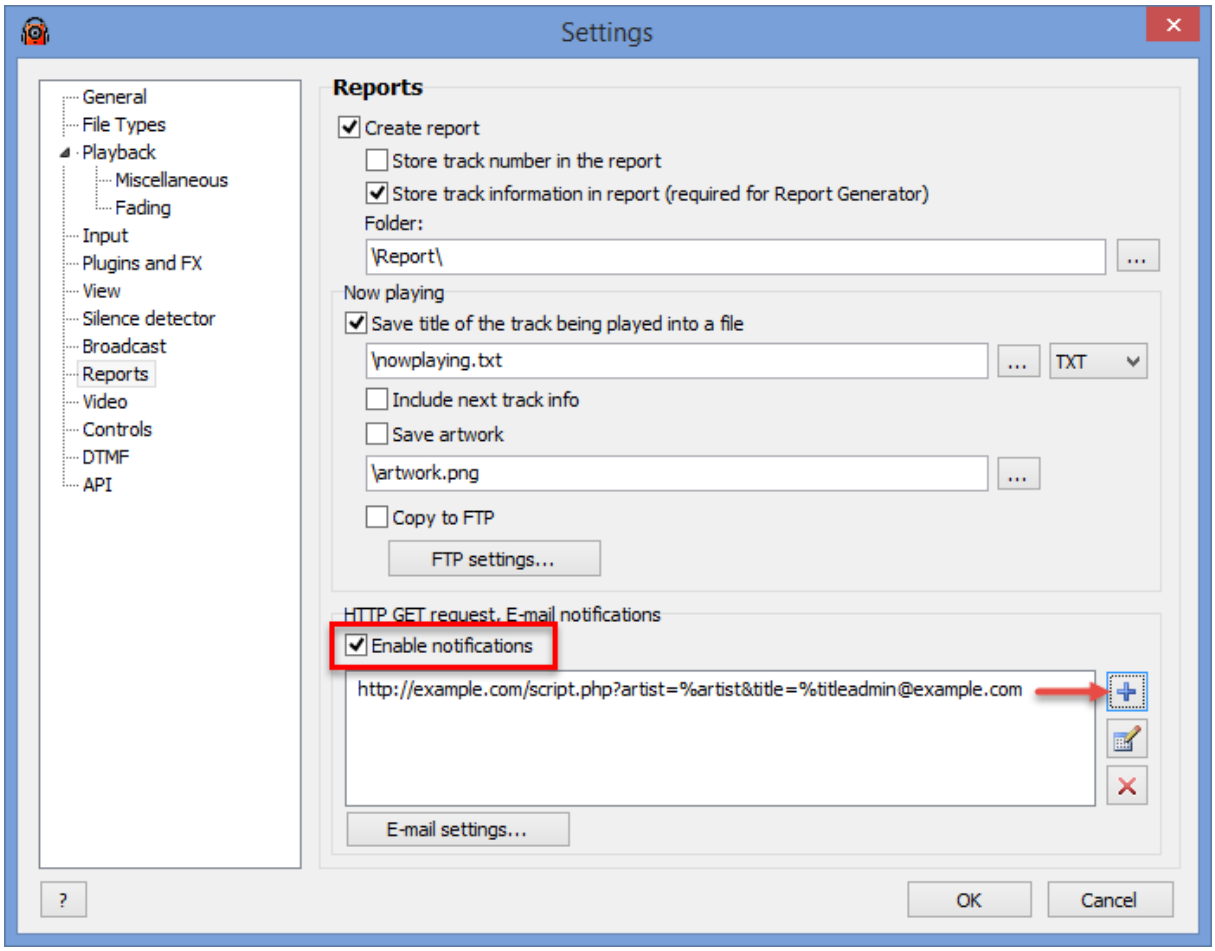
5.9.1 Using notifications

Notifications are used to send various information to a script or to an e-mail address. This can be useful when you want to display the current song name on your website.

To use HTTP request or E-mail notifications:

1. Turn on the feature: check the "Enable notifications" checkbox. If you plan on using E-mail notifications, click the **E-mail settings...** button and fill the SMTP e-mail server

2. Click the "**+**" button to add new notification.



3. The notification window will appear.

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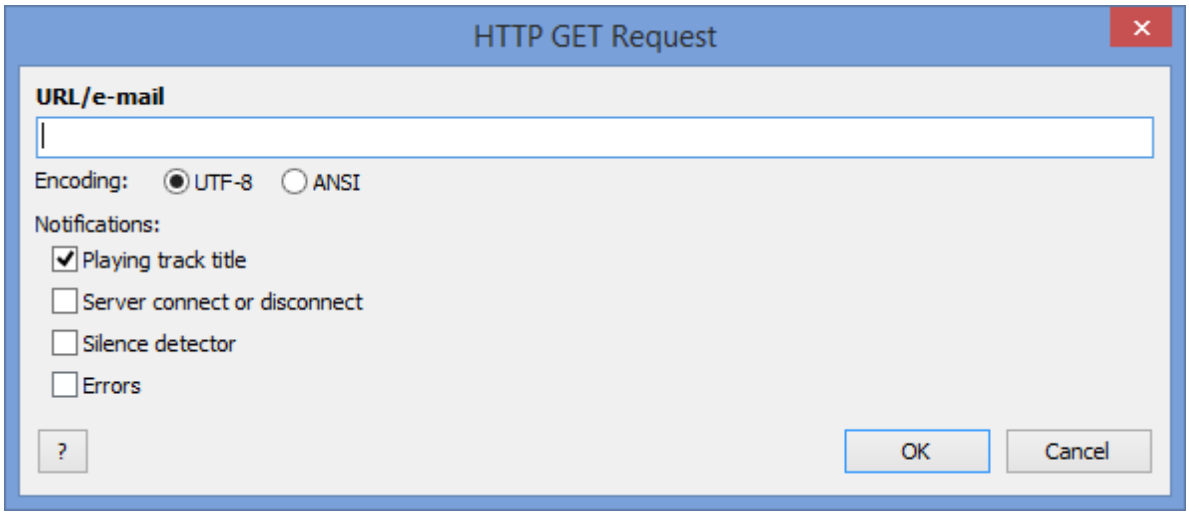

Enter a URL (http://) into the **URL/e-mail** field if you want to send a notification to a script.

HTTP notifications

For the "Playing track title" notifications, you should fill the URL with the required parameters, e.g.:
http://example.com/updatesonginfo.php?artist=**%artist**&title=**%title**
The Encoding depends on what your script accepts. UTF8 works in most cases and it doesn't have a problem with international characters.

The values can be used in a request for a Playing Track Title notification:

%artist - song artist
%title - song title
%casttitle - track title in the playlist
%album - album name
%year - year
%comment - comment
%genre - song genre
%len - song duration (mm:ss)
%seconds - song duration in seconds
%filename - song file name without a path
%path - full file path
%playcount - play counter
%listeners - listener number (currently connected listeners)

For other notification types, use these parameters:

%msgtype - message type: **server** for server connect/disconnect messages; **silence** for silence detector messages and **error** for error notifications
%msgtext - message text

E-mail notifications

To send notification to an e-mail address, enter the address in the **URL/e-mail** field.

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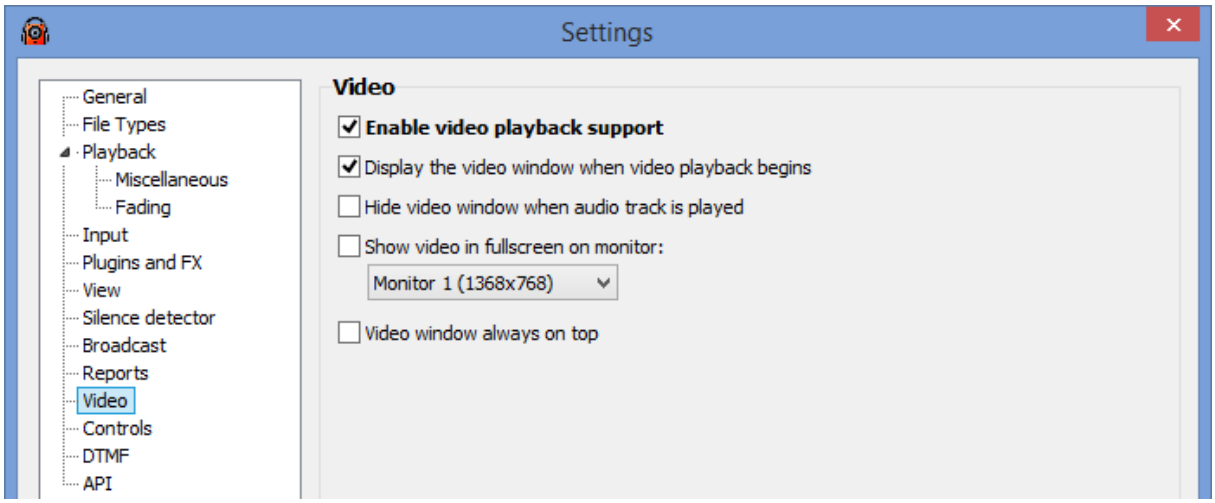
5.10 Video

RadioBOSS can play not only audio tracks but also video. Video playback can be configured in the **Settings** dialog. Video playback is supported in RadioBOSS Advanced only.

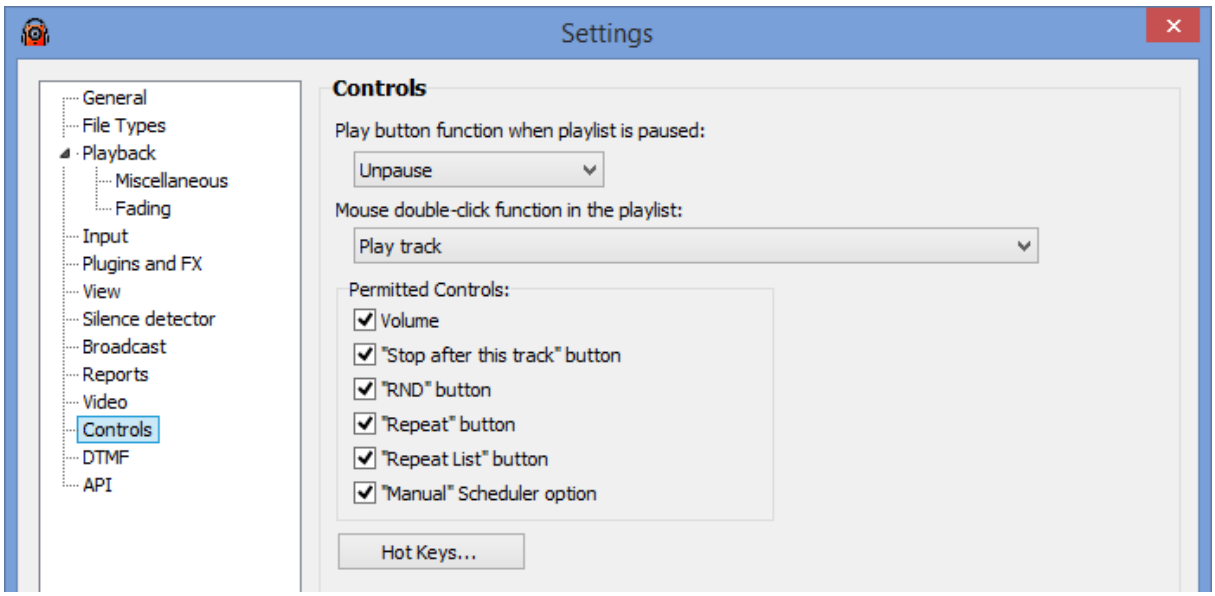
To customize video playback settings:
On the top menu bar, select **Settings** > **Options...**
Select Video category



5.11 Controls

This window allows to select play and mouse double-click function; hide unneeded buttons.

To customize Controls settings:
On the top menu bar, select **Settings** > **Options...**
Select Controls category



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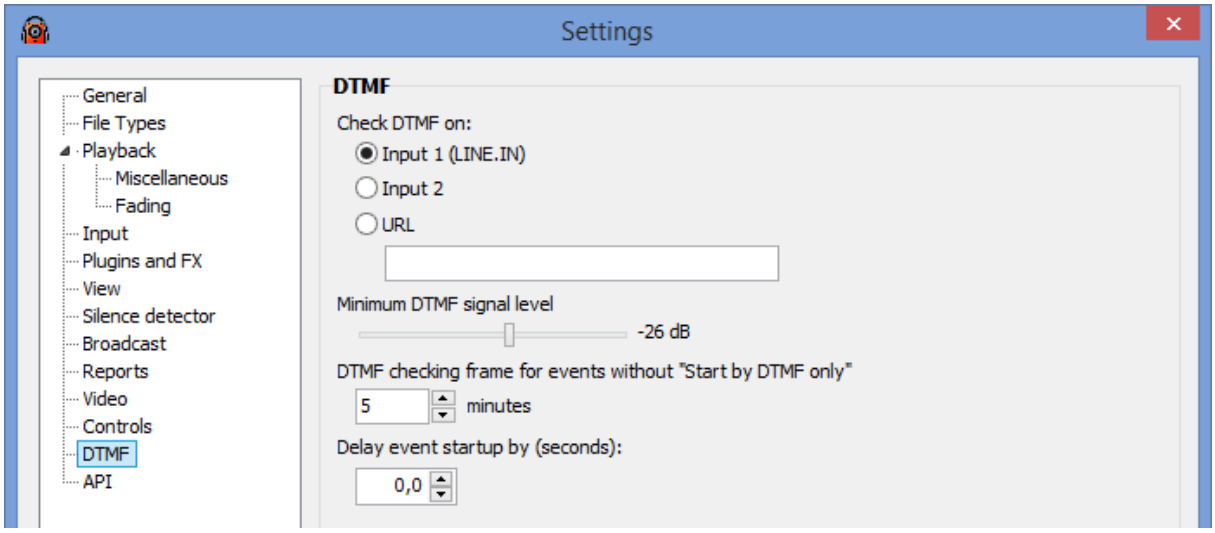
5.12 DTMF

To customize DTMF detector settings:
On the top menu bar, select **Settings** > **Options...**
Select DTMF category



Check DTMF on	Select the source where DTMF signals will be checked - one of the linear inputs or network stream URL.
Minimum DTMF signal level	Specify the minimum threshold for DTMF signal

For more information on DTMF please refer to this topic: Starting events by DTMF signal

5.13 API

To customize Remote Control API settings:
On the top menu bar, select **Settings** > **Options...**
Select API category

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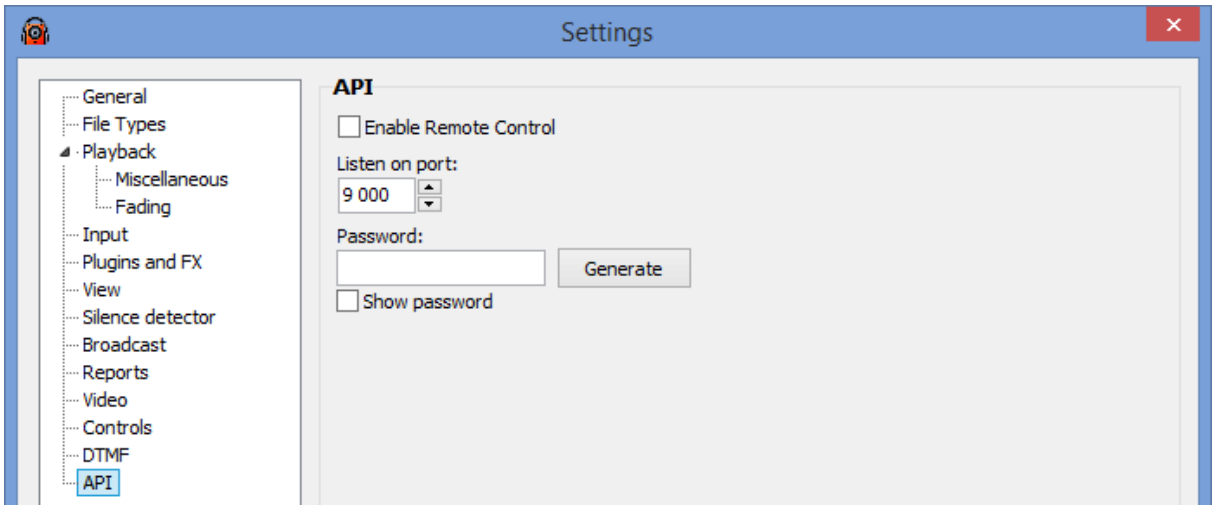

Enable Remote Control	Enable or disable remote control feature
Listen on port	Select the port where connections will be accepted
Password	Specify password - only requests with the correct password will be executed. Security notice: choose a complex and hard to guess password to prevent unauthorized access.

See this topic for more information on how to use Remote Control API: Remote Control API

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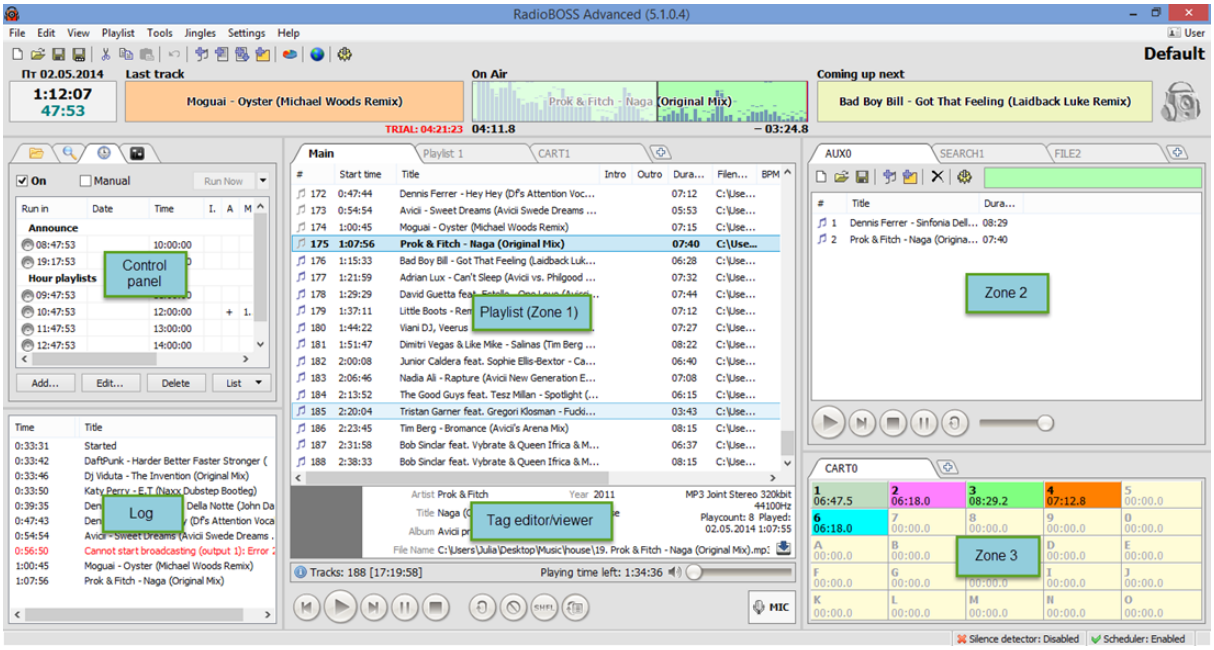
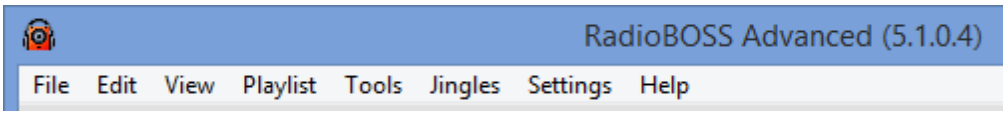
Part VI

6 User interface

RadioBOSS' user interface overview:



1. Top menus
Top menus provide quick access to most of the commands and options of the program.



For more information on the top menus, please refer to Top menus.

2. Toolbar
Toolbar provides a one-click access to all commands and options of the program which are presented as icons.

For more information please refer to Toolbar.

3. Control panel
Control panel allows users to switch between views and modes that are presented as tabs.

For more information, please refer to the Control panel.

4. Playlist window (Zone 1)

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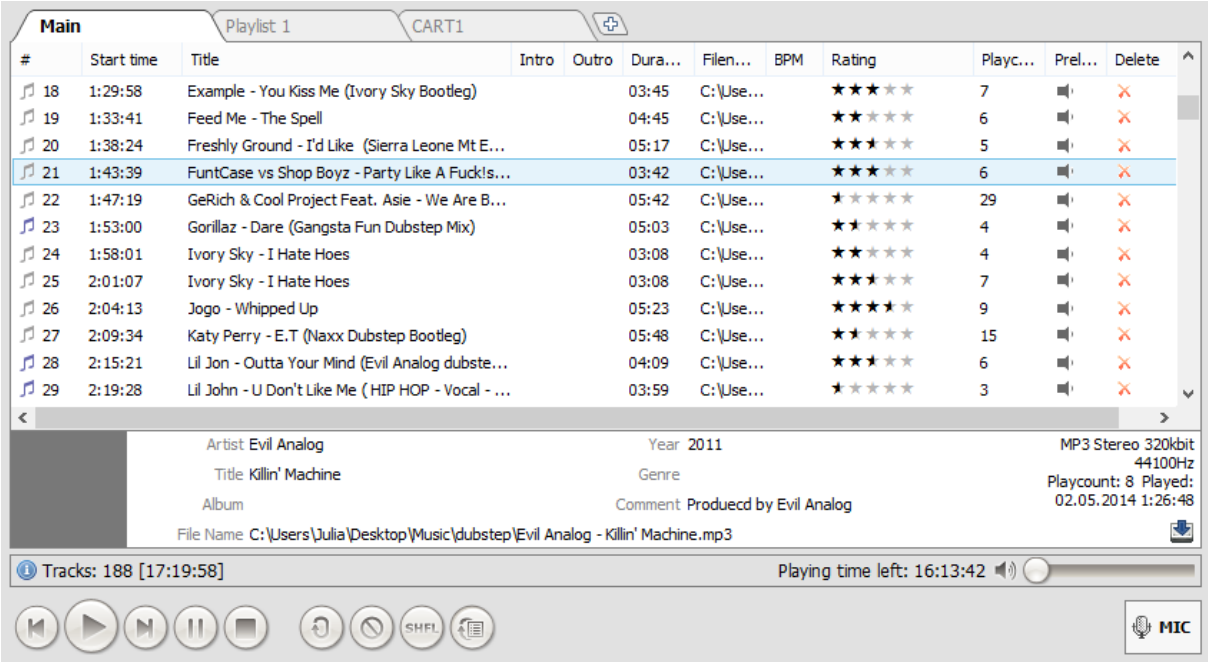
Playlist window lists all the tracks in a current playlist along with track information.


Main
Playlist 1
CART1
Start time Title Intro Outro Dura... Filen... BPM Rating Playc... Prel... Delete
18 1:29:58 Example - You Kiss Me (Ivory Sky Bootleg) 03:45 C:\Use... 7
19 1:33:41 Feed Me - The Spell 04:45 C:\Use... 6
20 1:38:24 Freshly Ground - I'd Like (Sierra Leone Mt E... 05:17 C:\Use... 5
21 1:43:39 FuntCase vs Shop Boyz - Party Like A Fuck!s... 03:42 C:\Use... 6
22 1:47:19 GeRich & Cool Project Feat. Asie - We Are B... 05:42 C:\Use... 29
23 1:53:00 Gorillaz - Dare (Gangsta Fun Dubstep Mix) 05:03 C:\Use... 4
24 1:58:01 Ivory Sky - I Hate Hoes 03:08 C:\Use... 4
25 2:01:07 Ivory Sky - I Hate Hoes 03:08 C:\Use... 7
26 2:04:13 Jogo - Whipped Up 05:23 C:\Use... 9
27 2:09:34 Katy Perry - E.T (Naxx Dubstep Bootleg) 05:48 C:\Use... 15
28 2:15:21 Lil Jon - Outta Your Mind (Evil Analog dubste... 04:09 C:\Use... 6
29 2:19:28 Lil John - U Don't Like Me (HIP HOP - Vocal - ... 03:59 C:\Use... 3
Artist Evil Analog
Title Killin' Machine
Album
Year 2011
Genre
Comment Produecd by Evil Analog
MP3 Stereo 320kbit 44100Hz
Playcount: 8 Played: 02.05.2014 1:26:48
File Name C:\Users\Julia\Desktop\Music\dubstep\Evil Analog - Killin' Machine.mp3
Tracks: 188 [17:19:58]
Playing time left: 16:13:42
SHFL
MIC

For more information on playlists, please refer to the Playlist window.

5. Zones 2 and 3

Additional zones can be activated from the menu: View->Work Zones
Zones 2 and 3 can host Cart Wall, AUX Player, Web browser, Search and File Explorer.

6. Player
The player allows users to play a track from a playlist and provides additional options to control playback.

For more information on the top menus, please refer to the Player.
The style of the playback buttons can be changed in Settings->View, Playback button style.

You can change your radio station's logo. Just right-click on the icon in the upper right-hand corner. A window will open in which you can select a new logo.

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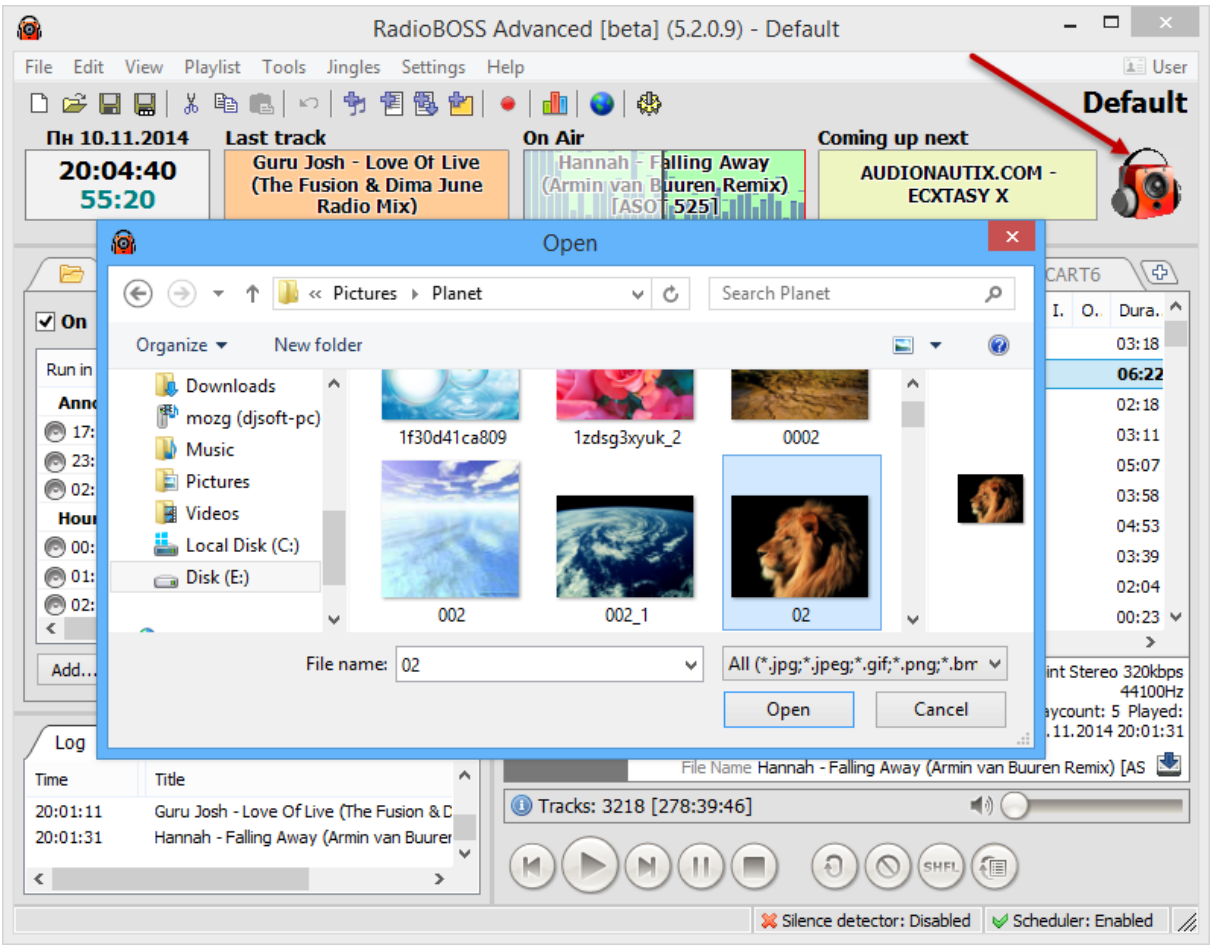
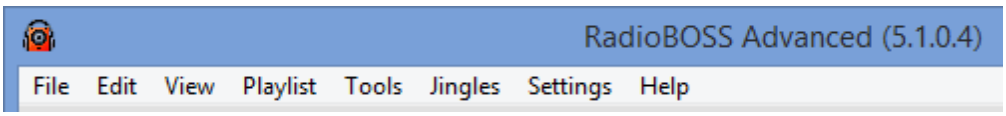


More information:
Top menus
Toolbar
Control panel
Playlist window
Player

6.1 Top menus

RadioBOSS offers top menus that provide access to all the commands and options.



Description of menus:

File	Create, open, save, print a playlist

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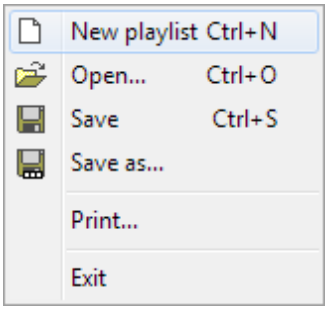
Edit	Operations with playlist
View	Viewing and control panel options
Playlist	Add music and other items to a playlist, record voice tracks and more
Tools	Tools: Music Library, Report Generator, Ads Scheduler, Stream Archive
Jingles	Configure quick access jingles
Settings	Settings and operations with a profile
Help	Help, registration, program credits

6.1.1 File

The **File** menu allows users to create, open and save a playlist.



Description of menu entries:

New	Create a new playlist
Open...	Open a playlist
Save	Save a playlist
Save as...	Save a playlist as...
Print...	Print a playlist
Exit	Exit the program

6.1.2 Edit

The **Edit** menu allows users to edit a playlist, such as cut, copy, paste and delete playlist items.

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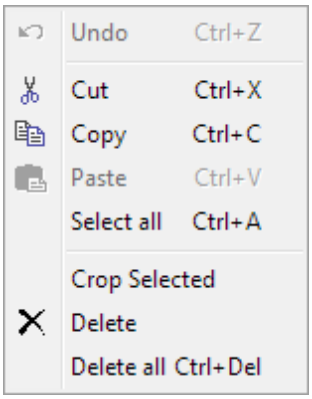

Description of menu entries:

Undo	Undo a recent operation
Cut	Cut a selected file to clipboard
Copy	Copy a selected file to clipboard
Paste	Paste a file from clipboard
Select all	Select all files
Crop selected	Crop selected files
Delete	Delete a selected file
Delete all	Delete all files

6.1.3 View

The **View** menu allows users to switch to different viewing modes, such as File explorer, Search, Information, FX, Broadcasting statistics, etc.

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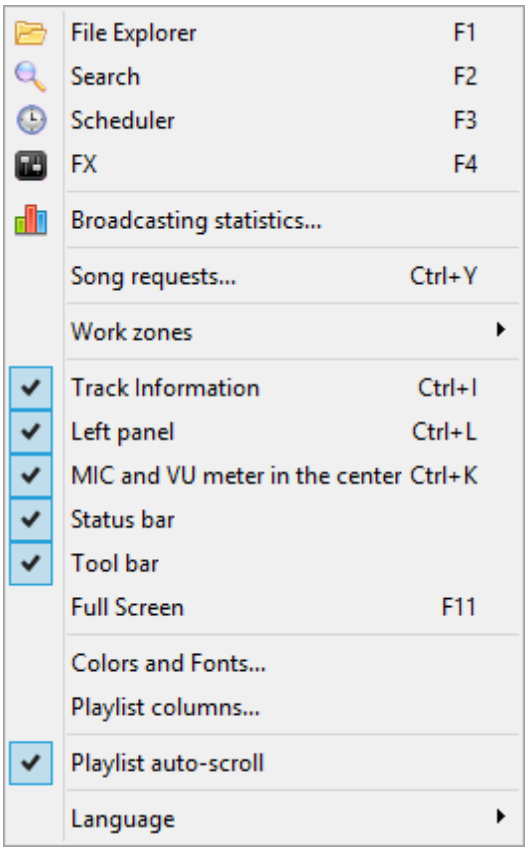

Description of menu entries:

File explorer	Open a file explorer window
Search	Open a search window
Schedule	Open a scheduler
FX	Open an FX control panel
Broadcasting statistics	Open a window with information on broadcasting output channels (number of listeners, status).
Song requests...	Open a window with song requests
Work Zones	Configure the number of work zones. Second and third work zone will appear at the right and can host File explorer, Search, Cart wall, AUX Player and Web browser.
Track Information	Turn on/off Track Information panel under the playlist.

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Left panel	Show/hide left panel
MIC and VU meter in the centre	Show/hide MIC and VU meter in the centre
Status bar	Show/hide status bar
Tool bar	Show/hide toolbar
Full Screen	Switch to full-screen mode
Colors and Fonts...	Change playlist colors and fonts
Playlist columns...	Configure playlist columns
Playlist auto-scroll	Automatically scroll playlist to the playing track
Language	Select a language for the user interface

6.1.4 Playlist

The **Playlist** menu allows users to perform operations on a playlist.

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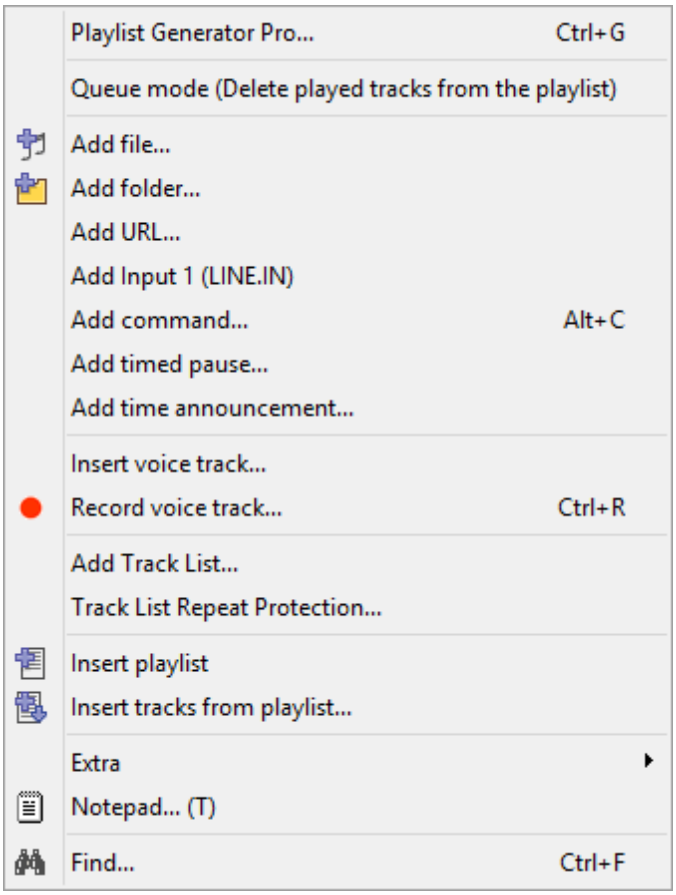

Description of menu entries:

Playlist Generator Pro...	Open Playlist Generator Pro
Queue mode (Delete played tracks from the playlist)	If checked: after the track has played, it will be removed from the playlist.
Add file...	Add a file to the playlist
Add folder...	Add all tracks from a specified folder to the playlist
Add URL...	Add an URL address to the playlist to play a network stream or podcast.
Add command...	Add a command to the playlist
Add timed pause...	Add timed pause (a window will open where you can set the duration)
Add time announcement...	Add automatic time announcement

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Add Input1 (LINE.IN) **Add Input2 (Line2.IN)**	Add a line input to the playlist. This menu item will be hidden if no device is selected for Line.In in Settings.
Insert playlist	Insert a playlist to the current playlist - the playlist will appear as one track and will be opened up on playback
Add tracks from playlist...	Add tracks from a playlist to the current playlist
Insert voice track...	Insert voice track into playlist, voice tracks are recorded using Voice Track recording tool
Record voice track...	Open Voice Track recording tool
Add Track List...	Add Track List
Track List Repeat Protection...	Configure no-repeat rules for Track List feature
Extra	
Shuffle	Shuffle tracks in the playlist
Copy to folder...	Copy selected files to a folder
Delete nonexistent files	Remove entries of files that have been deleted from disk
Delete files from disk	Delete selected files from disk. Use with care.
Calculate playlist length	Re-calculate playlist length
Playlist Generator...	Open Playlist Generator
Find...	Search in playlist
Notepad...	Open Notepad to add note to the track. The note will pop up every time the track is played.

More information:
Generating a playlist
Using microphone
Working with linear input
Using Track list
Voice Tracking

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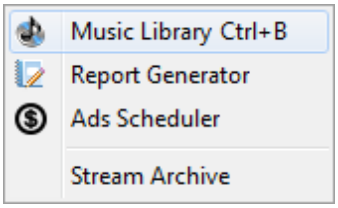
6.1.5 Tools



Menu entries:

Music Library	Open Music Library
Report Generator	Open Report Generator
Ads Scheduler	Open Ads Scheduler
Stream Archive	Configure Stream Archive feature to record broadcasts

6.1.6 Jingles

The **Jingles** menu lists current jingles (1-9) and allows users to define new ones.

Jinlges may be quickly played using the 1-9 keys on keyboard or using the 1-9 buttons on the toolbar.

Description of menu entries:

1-9	List of assigned jingles
Assign...	Assign jingles

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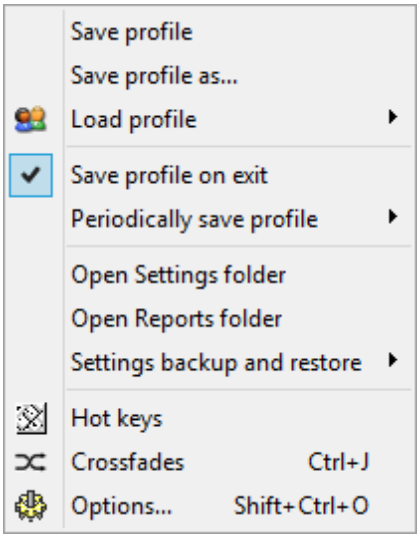
6.1.7 Settings

The **Settings** menu allows users to save and load settings profiles, customize hot keys and preferences.



Description of menu entries:

Save profile	Save a current settings profile
Save profile as...	Save a current settings profile as...
Load profile	Load a settings profile
Save profile on exit	Save a settings profile automatically when the program is closed. By default, the option is checked.
Periodically save profile	Periodically save profile, select how often.
Open Settings folder	Opens the folder where RadioBOSS stores its settings and other data.
Open Reports folder	Opens the folder with reports. Report is a .csv file that stores the log of program operation: what tracks were played, when, which scheduled tasks were started and other events.
Settings backup and restore	Create a backup copy of settings: profile, playlists, scheduled events and other settings in a single file
Hot keys	Customize hot keys
Crossfades	Configure crossfades

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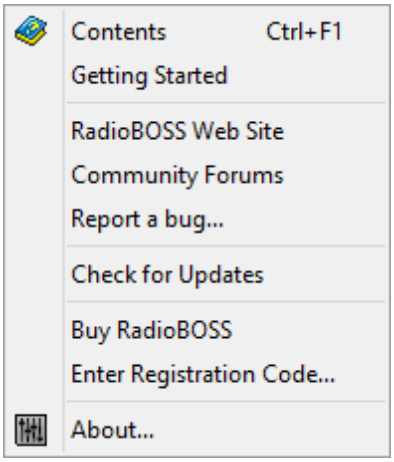
Options...	Open the Settings dialog

More information:
RadioBOSS. Quick start

6.1.8 Help

The **Help** menu allows users to open Help, visit RadioBOSS website, report a bug, register the program and view credits.



Description of menu entries:

Contents	Open Help system
Getting Started	Open RadioBOSS Quick start chapter
RadioBOSS Web Site	Open the RadioBOSS website
Community Forums	Opens RadioBOSS Community Forums
Report a bug...	Open the Report a bug form
Check for Updates	Check if a new RadioBOSS version is available
Enter Registration Code...	Open Enter registration key dialog

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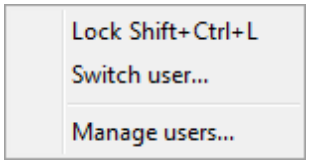
About...	Open About RadioBOSS dialog

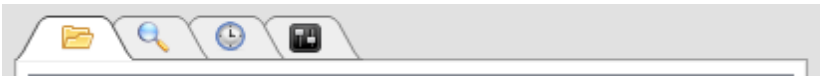
More information:
How to register

6.1.9 User



User Account Management. Please see this topic for more information.

6.2 Control panel



Description of icons:

	File explorer - Browse through the file system to add tracks to the playlist (Read more...)
	Search - Find a track instantly by searching for a specific keyword in title, artist, album, etc (Read more...)
	Scheduler - Events Scheduler (Read more...)
	FX - Configure the equalizer, tempo, ... (Read more...)

6.2.1 File explorer

File explorer allows users to browse through folders and add files to the playlist.

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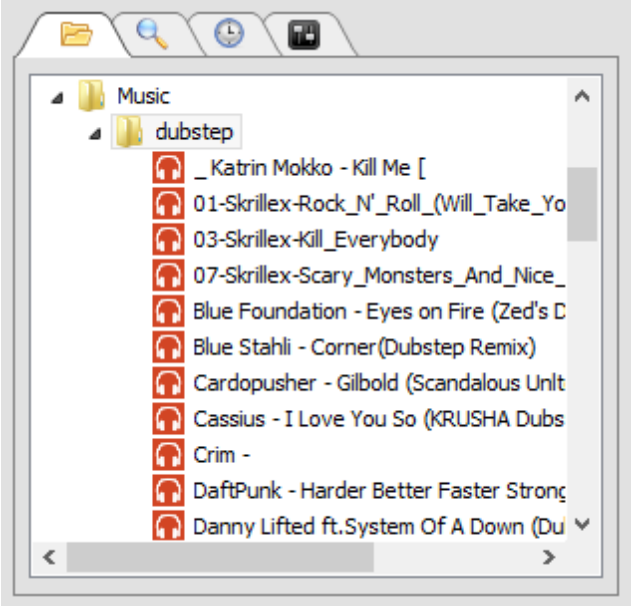
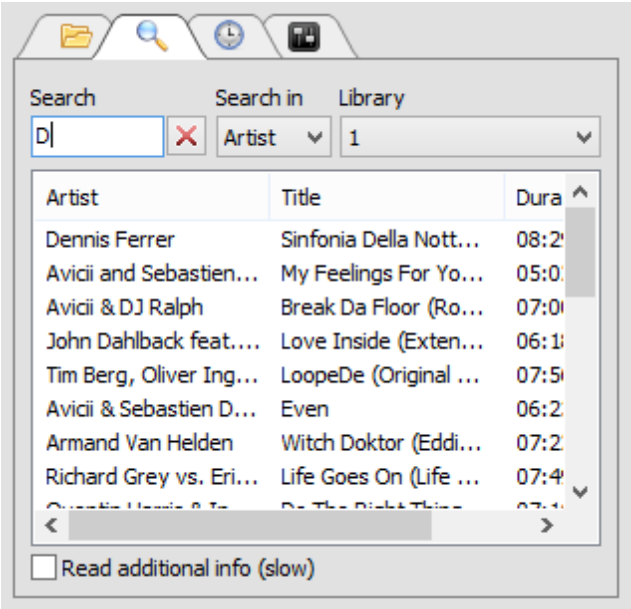

Music
dubstep
_ Katrin Mokko - Kill Me [
01-Skrillex-Rock_N'_Roll_(Will_Take_Yo
03-Skrillex-Kill_Everybody
07-Skrillex-Scary_Monsters_And_Nice_
Blue Foundation - Eyes on Fire (Zed's D
Blue Stahli - Corner(Dubstep Remix)
Cardopusher - Gilbold (Scandalous Unlt
Cassius - I Love You So (KRUSHA Dubs
Crim -
DaftPunk - Harder Better Faster Strong
Danny Lifted ft.System Of A Down (Du

To add a track to the playlist, drag a file from File explorer and drop it to the Playlist window.

Right-click to show search bar. List can be manually updated by pressing F1 key.

6.2.2 Search

Search allows users to find a track in the Music library.



To search for a file, enter a keyword into the **Find** field.

As the first letters of a keyword are being entered, the program automatically queries its database and lists all the tracks that match the query. The results narrow down as the user keeps on entering letters. Users can search for a keyword in title, artist, album, year, genre, comment, etc.

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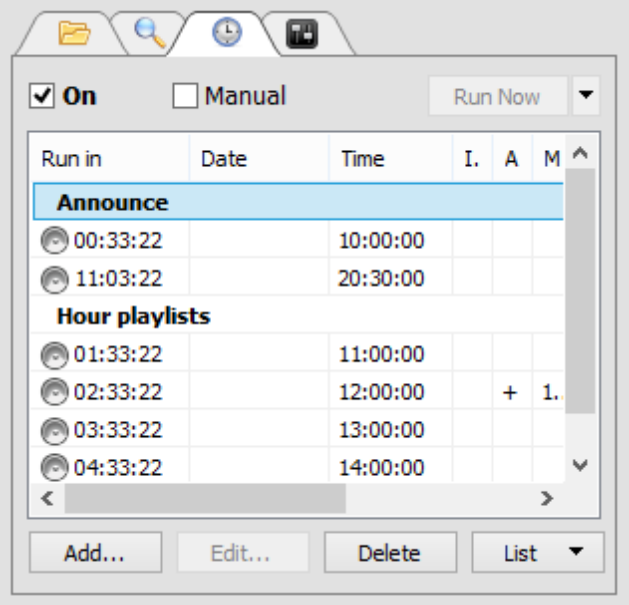
To add files to playlist you may use drag-n-drop, right-click menu or hot keys:
Num+ or Insert add after playing file
Num- add to the end of playlist

Right-click the **Stop** button to show the contents of the whole library in the search result.

More information:
Creating a music library

6.2.3 Scheduler

Scheduler allows users to schedule a track for automatic playback at a predefined time.



Description of scheduler buttons:

On	Enable/disable the scheduler. Button will be grayed out when the scheduler is suspended by the "scheduler off" command.
Manual	The event won't start automatically. Instead, the program will only notify when event is supposed to be started. To start the event use "Run Now" button.
Run Now	Run selected scheduler event manually
Add...	Add a new scheduled event
Edit...	Edit a scheduled event

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Delete	Delete a scheduled task
List ▼	Submenu with list edit commands
Save	Save a list of scheduled tracks to a file (.sdl)
Load	Load a list of scheduled tracks from a file (.sdl)
Print	Print scheduled events
Import	Adds events from .sdl files to a list
Clear	Clear event list

Description of column headers:

Run in	Time left before a scheduled start of a task
Date	Date for a scheduled event to run (if used)
Time	Time of scheduled start
Imm	Status of the **Launch immediately** option ("+" - enabled, "-" - disabled)
A	Status of the **Play above the air** option ("+" - enabled, "-" - track will be included into the main playlist)
Mute level	Playlist volume level when "Play above the air" task is being played
Filename	Filename and path to a file in the file/command name
Name	Event title

More information:
Scheduling playback

6.2.4 FX

FX allows users to configure various effects.

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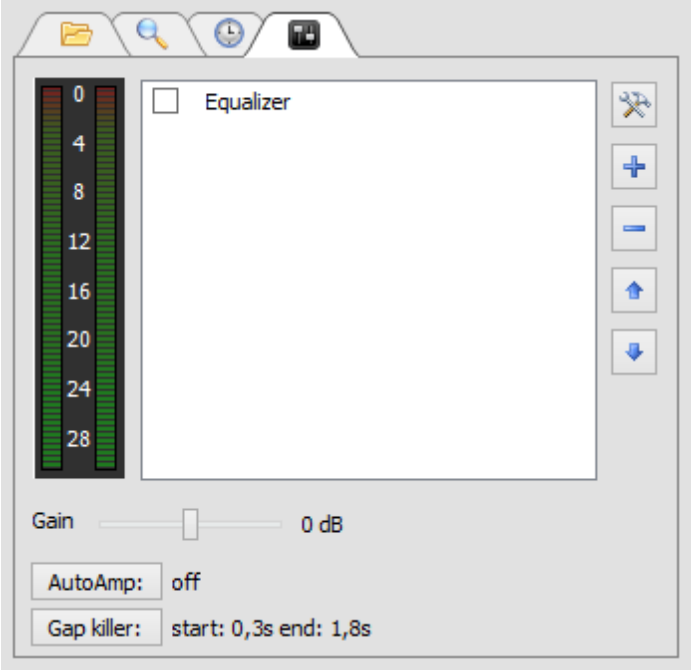

On this tab you'll see the current output level and control it using Gain slider. You can also add, remove turn on and off DSP's.
To add DSP: click "+" button; click "-" to remove and tool button to configure.
You can use built-in DSP's such as Equalizer and Compressor; you can also use VST and Winamp DSP plugins.

	Information on status of AutoAmp (Automatic Gain Control) and Gap killer. Click buttons to access settings of those features.

To change Gap Killer or AutoAmp settings, click the corresponding button.

More information:
Using the microphone
DSP Plugins

6.3 Toolbar

RadioBOSS offers a toolbar that provides quick access to the main commands and options.

Description of icons:

	Create a new playlist
	Open a playlist

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	Save a playlist
	Save a playlist as...
	Cut to clipboard
	Copy to clipboard
	Paste from clipboard
	Undo a recent operation
	Add track
	Insert a playlist - playlist will be added as one item in the program's playlist and will open up on playback
	Insert tracks from playlist
	Add tracks from folder
1-9	Quick-access jingles
	Open the Settings dialog

6.4 Playlist window

Playlist window lists all tracks in a current playlist along with track information.

Main
Playlist 1
CART1
Start time Title Intro Outro Dura... Filen... BPM Rating Playc... Prel... Delete
17 1:26:49 Evil Analog - Killin' Machine 03:12 C:\Use... 8
18 1:29:56 Example - You Kiss Me (Ivory Sky Bootleg) 03:45 C:\Use... 8
19 1:33:37 Feed Me - The Spell 04:45 C:\Use... 7
20 1:38:20 Freshly Ground - I'd Like (Sierra Leone Mt E... 05:17 C:\Use... 5
21 1:43:34 FuntCase vs Shop Boyz - Party Like A Fuck!s... 03:42 C:\Use... 6
22 1:47:15 GeRich & Cool Project Feat. Asie - We Are B... 05:42 C:\Use... 29
23 1:52:55 Gorillaz - Dare (Gangsta Fun Dubstep Mix) 05:03 C:\Use... 4
24 1:57:56 Ivory Sky - I Hate Hoes 03:08 C:\Use... 4
25 2:01:03 Ivory Sky - I Hate Hoes 03:08 C:\Use... 7
26 2:04:09 Jogo - Whipped Up 05:23 C:\Use... 9
27 2:09:30 Katy Perry - E.T (Naxx Dubstep Bootleg) 05:48 C:\Use... 15
28 2:15:16 Lil Jon - Outta Your Mind (Evil Analog dubste... 04:09 C:\Use... 6
29 2:19:24 Lil John - U Don't Like Me (HIP HOP - Vocal - ... 03:59 C:\Use... 3
30 2:23:20 Manian - Hold Me Tonight (Bassrangers Remi... 06:59 C:\Use... 3
31 2:30:17 Massive Attack - Paradise Circus (Zeds Dead... 05:17 C:\Use... 4

On top of **Playlist** window, there are tabs: **Main** and **Temp** by default. **Main** is a playlist that is currently

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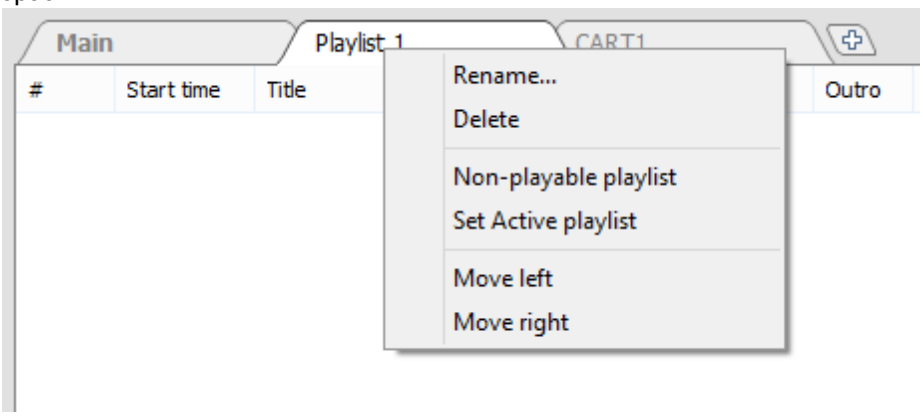
being played, while **Temp** is an extra playlist that can be played too. You can create as many playlists as you need, just click the "+" button on the right.

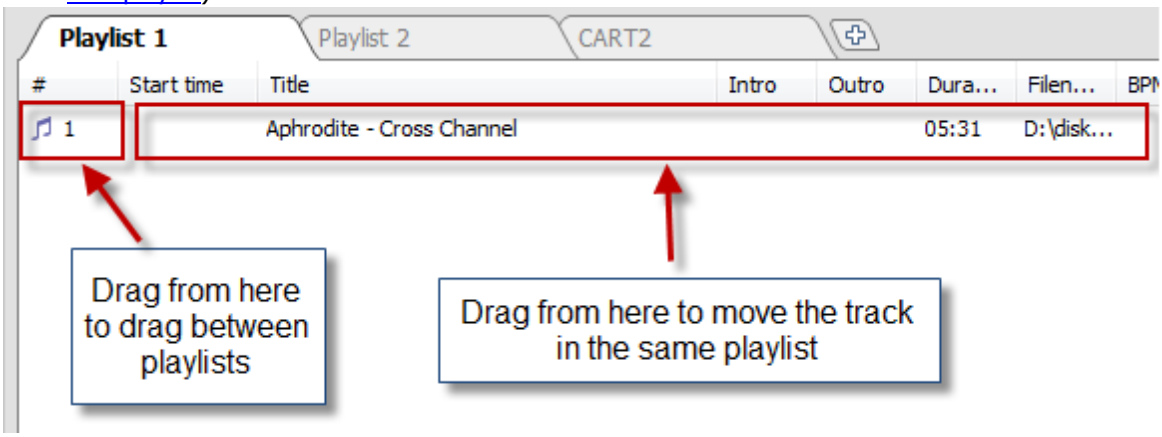
Tracks are marked with a blue note icon. Tracks which have already been played have a grayed out icon. Scheduled tracks in addition have the small "clock" icon.

Various file types (commercials, station IDs, jingles, ...) can be marked with color.

If you would like to make a playlist non-playable, right-click its tab and check the **Non-playable playlist** option.



You can drag files inside a playlist using a mouse. You can also drag files between different playlists (eg. to an AUX playlist).



You can add tracks to the playback queue. Just right-click on a track and select **Add to playback queue**. The track's number in the queue will be displayed next to the track.

You can perform different actions with tracks by clicking the corresponding icon in the playlist:

	Listen to a track
	Remove a track
	Play a track
	Add a Stop command after a track

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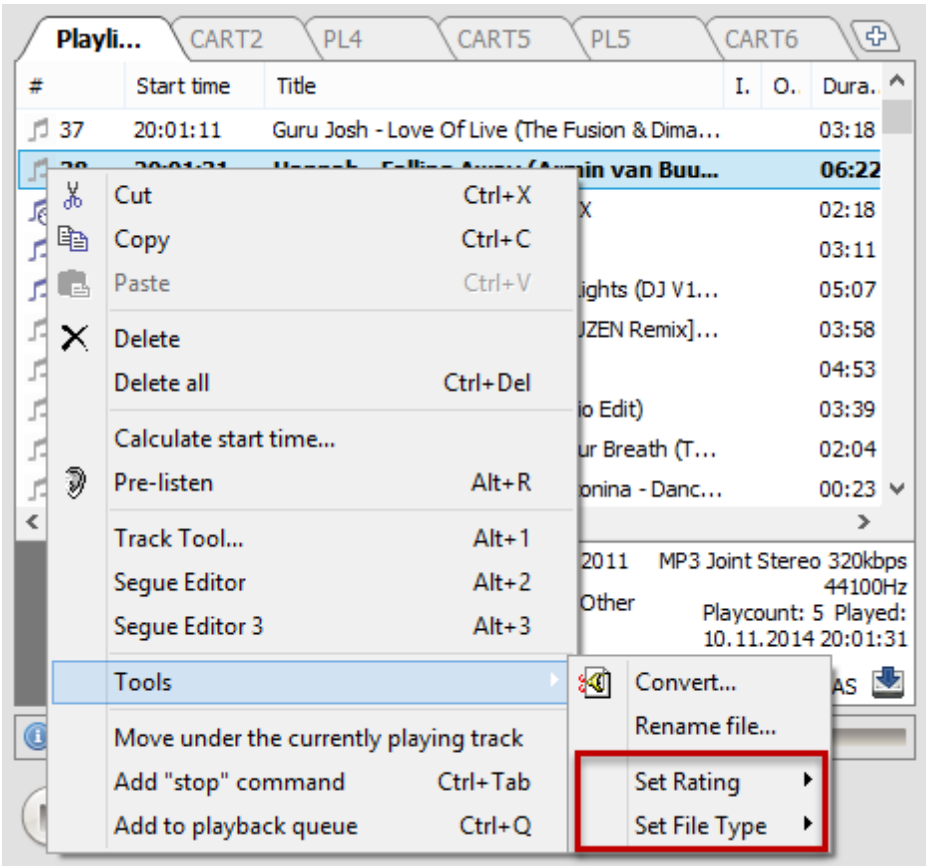
Below the playlist, there is an area for information about tracks. You can editing tags in that area.

You can set a rating and a file type for each track. To do it, right-click the playlist and select the "Tools" item.



You can also set a file type via the music library: select one or more tracks, right-click a track in the music database, and select "Track Properties..."

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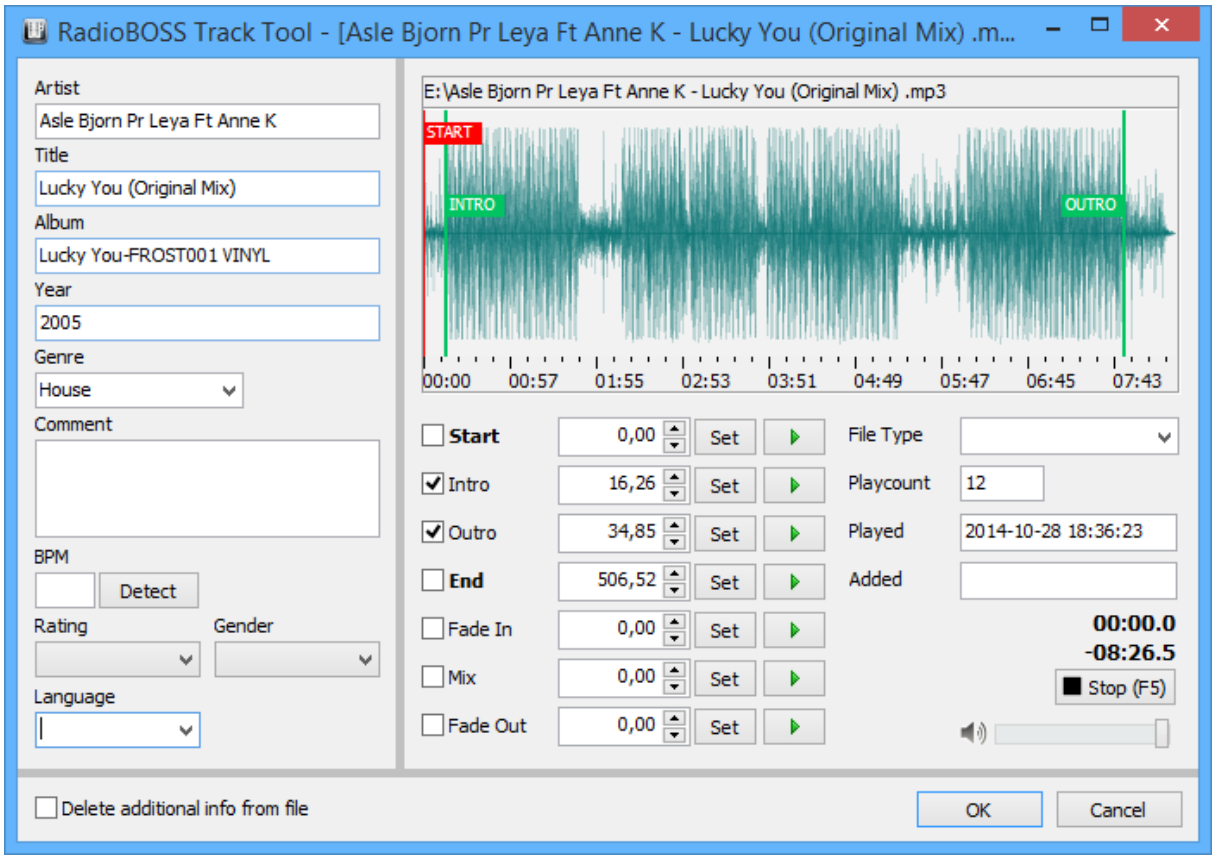

A picture for the selected track is shown in the information area. For tracks without pictures, you can put an image file named **nocover.png** into the settings folder. If you do it, that picture will be shown in the Track information field for tracks without album art. To open the settings folder, select "Settings" –> "Open Settings folder" in the menu.

More information:
Cart wall
File types

6.5 AUX Players

AUX players are mini playlists with simple playback and edit features. Those players can be used for various purposes: save and edit playlists, play tracks, jingles or announcements.
AUX players can only be added in Zone 2 or Zone 3. In order to activate those zones use the menu command: View->Work Zones->2 (or 3).

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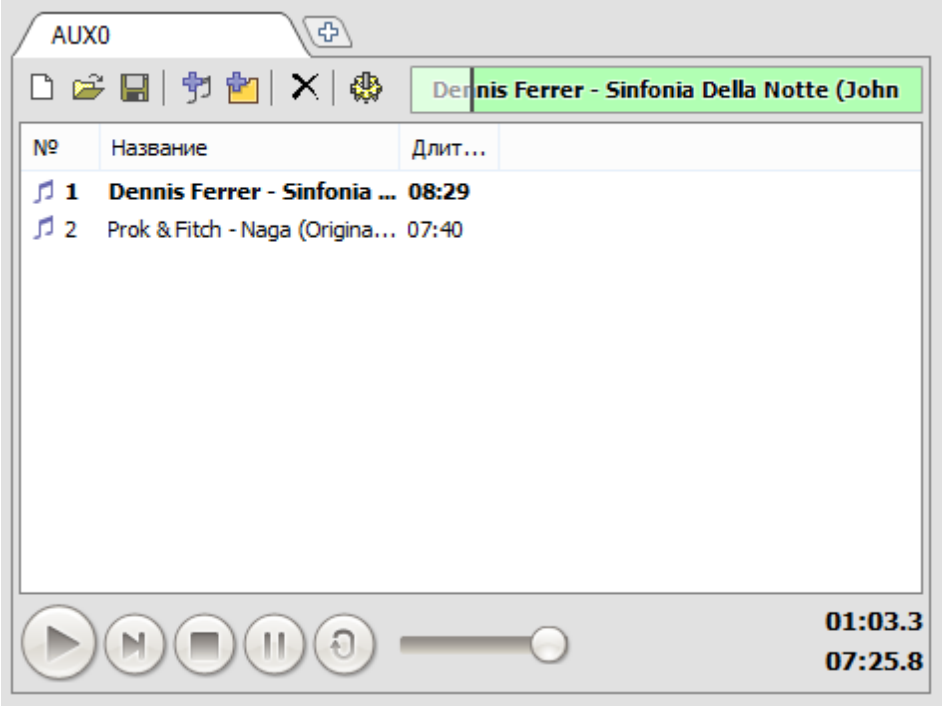
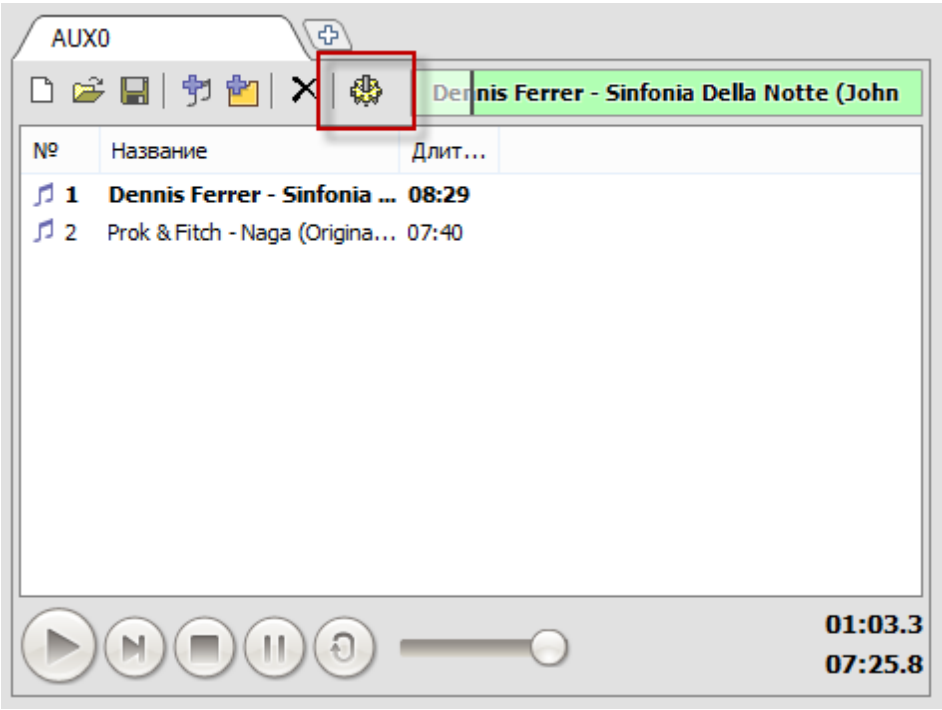


It's possible to drag-n-drop tracks between regular and AUX playlists: just start dragging a track by its icon (please see the Playlist page for details).

By default, AUX players play tracks on the Main sound device. It's also possible to use other devices. Click the **Settings** button to configure AUX player. If an AUX1 or AUX2 device is selected for the playback, make sure those devices are correctly configured in the Playback settings.



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6.6 Playback control

Player allows users to play a track from the playlist.

The button style can be changed in the View section of the settings page.

Seeking: the track playback position can be changed by right-clicking on the "On air" window:

Description of player controls:

	Jump to the previous track
	Play the selected track
	Jump to the next track
	Pause playback
	Stop playback
	Repeat the current track
	Stop playback after the current track. Right-click this button and select a mode
	Shuffle playback order
	Repeat the playlist
	Set volume up or down

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You can change the style of those buttons in Settings -> View.

More information:
Generating a playlist

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Part VII

7 License agreement

End-User Licence Agreement for RadioBoss

This licence states the terms and conditions upon which THE SOFTWARE is licensed to you. By using or attempting to use THE SOFTWARE's installation disc, you are agreeing to become bound by the terms of this Licence. If you do not agree to these terms, return the entire contents of the software package intact and unused to your supplier.

1. Definitions

'THE DEVELOPER' means djSoftware. 'THE SOFTWARE' means RadioBoss. 'THE DOCUMENTATION' means the RadioBoss manual and test pages.

2. Licence

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More information:
How to register

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Part

8 Contacts

If you have questions about RadioBOSS, suggestions on how to improve the software, or you found a bug, please visit our support page: http://www.djsoft.net/enu/support.htm or forums: http://www.djsoft.net/smf/

The latest version of the program can be downloaded from http://www.djsoft.net

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